Arlington Public Schools
FY 2007 – FY 2012 School Board’s Adopted
Capital Improvement Plan

School Board
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Libby Garvey, Vice Chair
Edward J. Fendley
David M. Foster
Frank K. Wilson

Superintendent
Dr. Robert G. Smith
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October 5, 2006

Mr. Chris Zimmerman
Arlington County Board
2100 Clarendon Boulevard
Arlington, Virginia 22201

Dear Mr. Zimmerman,

I am pleased to present the FY 2007 – FY 2012 Adopted Capital Improvement Plan (CIP) for the Arlington Public Schools. This plan, responsive to the School Board direction on the Capital Improvement Program, builds on the progress made since 1988 when the school system first crafted a formal CIP supported by a bond referendum every two years.

Since the 1994 bond referendum, the CIP has focused on major school renewals, replacements and additions. As a result of the Arlington community’s consistent and generous support, we can take great pride in what has been achieved to upgrade our public school buildings, reflecting an intent to provide high quality learning environments for all public school students. Through the bond referenda from 1988 forward, the community has provided over $375 million for school construction. This past September, citizens around the county welcomed the new Kenmore Middle School building, a state-of-the-art educational facility that includes performance facilities serving both the schools and the community. In September 2006, the renewed Nottingham Elementary School and the HB Woodlawn music addition will open. With the bond funds approved in 2004, we began recently the reconstruction of Washington-Lee High School and commenced design work for the Yorktown High School and the Reed School reconstruction projects.

The proposed 2006 bond provides a portion of the construction funding for Yorktown High School, following the design funds approved in the 2004 bond. Within this plan, additional construction funding is anticipated for Yorktown in the 2008 bond. Also included in the 2006 bond are funds for the designs of Thomas Jefferson Middle School, Wakefield High School and the Career Center. The estimated cost of these projects totals the $33.7 million proposed for the 2006 bond.

This CIP continues the practice, adopted for the first time with the last CIP, of identifying the use of current revenues for major construction projects. Estimates of current revenues for capital projects over the six-year planning period total $71,045,691. This total includes $45,375,588 for "major construction" projects and $25,670,103 for "minor construction/major maintenance" projects. These amounts reflect the School Board's continued commitment to fund capital projects with current revenues in addition to bond funds. The current revenue funds available to use for major construction in FY 2007 total $15,307,061. A portion of these funds would defray the cost of three studies. Two of these studies will investigate needs related to scope, phasing, feasibility and cost, and develop site specific educational specifications for the Career Center and Wakefield. The third study is a comprehensive study of several sites and selected inter-related issues that require further analysis. The findings of all of these studies will inform our
CIP decisions in future years. Current revenues will also be used for the design of build-out of a to-be-determined lease space to address our long-term needs to house the High School Continuation program now at Arlington Mill. The remaining current revenues available will fund the construction of Reed and a portion of the construction of the Washington-Lee project.

The six-year Capital Improvement Plan totals $258,071,691, with $187,026,000 funded by bonds. Major construction projects identified resulted from a rank order determined by a comprehensive assessment analysis conducted by an outside consultant. The assessment took into consideration building condition, capacity utilization, educational adequacy and special considerations.

Since analysis of our financial condition interacts with the factors considered as part of the priority setting process, our staff worked with County staff to ensure that the debt associated with the bonds sold for the Schools’ proposed projects remains within the County established debt guidelines and debt ratios. While this plan and the proposed project schedules allow us to remain within the debt guidelines, future conditions may challenge the assumptions made in constructing the plan. In the next six years we anticipate continued decline in enrollment. Lower enrollment not only decreases the percentage share of revenue we receive from the County; it also presents different challenges regarding the use of space in our school buildings. We will be reviewing our educational models in the middle schools as enrollment declines, along with needs for high school continuation and administrative space. The capital plan includes the Wilson building, but indicates “TBD” where funds would be provided.

Each of the projects in the FY 2007 – FY 2012 Capital Improvement Plan comports with the School Board’s direction to provide permanent classrooms for all students and to renew school-owned buildings systematically. In addition, changes and developments in the field of education, including shifts in educational programs and other trends, affect a school system’s capital program. Given the continuing support for public education in the Arlington community, I am confident that we will meet the challenges of delivering, in fiscally prudent ways, the necessary capital improvements for our community’s schools. Implementation of the capital plan will allow Arlington to provide high quality instructional environments into the foreseeable future.

Sincerely,

Mary H. Hynes
Chair, Arlington County School Board
CIP Development Calendar

June 9  CIP Work Session
July 11  MC/MM request package sent to Principals and Program Managers
August 5 Principals and Program Managers submit completed MC/MM request forms to Facilities
August 9  CIP Work Session
November 8 Draft of FY 2007 MC/MM projects presented to Senior Staff
November 21 Administrative Council review of draft MC/MM projects
December 13 Final draft of FY 2007 MC/MM presented to Senior Staff during FY 2007 budget review
January 17 Senior Staff’s preliminary review of AFSAP
February 2  Board Information Item – AFSAP
March 16 Facilities Assessment Report to School Board
April 7  Senior Staff review of preliminary CIP
April 17  Senior Staff review of preliminary CIP (continued)
April 19  Administrative Council review of preliminary CIP
May 4  Board Information Item – Superintendent’s Proposed FY 2007 – FY 2012 CIP
May 9  CIP Work Session
May 17  CIP Work Session/Public Hearing on CIP
July 6  Board Action Item – Adopted FY 2007 – FY 2012 CIP
July 8  County Board Adopts FY 2007 – FY 2012 CIP
Arlington Public Schools

High Schools
Middle Schools
Elementary Schools
Other School Sites
Arlington County
INTRODUCTION

Every two years Arlington Public Schools (APS) develops a six-year Capital Improvement Plan (CIP) to address future facility needs. The CIP responds to requirements for new facilities, additions and renewals of existing schools and other student accommodation needs as set forth in the Arlington Facilities and Student Accommodation Plan (AFSAP). In addition to major construction projects, the CIP also addresses minor construction and major maintenance needs. The CIP serves as a project planning and financial planning document for the six-year period.

Staff develops the CIP on a two-year cycle. During the first year of the cycle (also known as the “off year”), no changes are made to the prior year’s CIP. Instead, staff studies various programs, space needs and policies to substantiate and update the projects for inclusion in the next year’s CIP. The second year of the cycle (also known as the “on year”) corresponds with the year in which a bond referendum is held. During the second year of the cycle, project scopes and estimates are revised as necessary based on the findings from the staff studies and based on current construction market conditions. The CIP for FY 2007 – FY 2012 is the second year of the two-year CIP development cycle for major construction projects, and as such, contains revised project scopes, schedules and cost estimates.

ARLINGTON FACILITIES AND STUDENT ACCOMMODATION PLAN

The Arlington Facilities and Student Accommodation Plan (AFSAP) for FY 2007 – FY 2012 provides a comprehensive look at student enrollment and building capacity within Arlington Public Schools. The intent of this document is to provide APS staff with informative data on which to base the CIP. Specific information about each school is provided, as well as an overall look at enrollment and capacity issues throughout the county.

Information provided in the AFSAP includes:

- Current and projected enrollments by school and grade level
- Enrollment vs. capacity analysis
- Description of enrollment projection methodology
- Housing trends and impact on enrollment
- Capacity analysis maps

The AFSAP is available in electronic format through the Arlington Public Schools Facilities and Operations website at [http://www.arlington.k12.va.us/facilities/afsap.html](http://www.arlington.k12.va.us/facilities/afsap.html).
**PROJECT PRIORITIZATION**

Major and minor construction projects included in the CIP are determined based on a project ranking system. While the ranking systems differ for major and minor construction projects, each system is used to determine the relative need of projects considering certain variables.

**Major Construction**
The project ranking system for major construction projects examines facility needs based on four criteria: building condition, capacity utilization, educational adequacy and special considerations. Each of these factors consists of underlying components that can be evaluated and assigned a numerical score. The data for these measures is provided by a third-party assessment of facilities, guided by APS staff. Those projects with the highest ranked needs are given priority in the School Board’s Adopted FY 2007 – FY 2012 CIP.

**Minor Construction/Major Maintenance**
Factors influencing the prioritization of minor construction/major maintenance projects include overcrowding, facility maintenance assessments, input from principals/building managers, input from the Advisory Council on School Facilities, pending bond referendum initiatives, safety concerns, scheduled maintenance services, statutory requirements, damage repairs, and improvements necessary for instructional purposes. Those projects with the highest ranked needs are included in the annual budget and in the corresponding CIP.

**FUNDING SOURCES**

Funding for the Capital Improvement Plan is provided by bond financing and by current revenues. Bond financing is generated through the sale of municipal bonds. Arlington County issues general obligation bonds which must be approved by the County’s voters. The County’s practice is to schedule bond referenda for even-numbered calendar years (which correspond to odd-numbered fiscal years). Additionally, as part of the annual budget process, the County appropriates current revenues to APS that may be used for capital projects. The annual appropriation of current revenues to the Capital Projects Fund for capital improvements provides greater flexibility in addressing ongoing facility needs since Arlington has opted to seek voter approval for bond financing every other year.

It is APS’ practice to fund the design of a major construction project in one bond year followed by construction funding the next bond year. This practice of funding design and construction of projects in separate bond years allows the project design to be well underway prior to the next bond year, thus providing a more accurate construction cost for inclusion in the next funding period. This practice reflects a capital planning approach that starts with a basic project estimate followed by subsequent refinement over time. Each CIP reflects new input and information about projects over a multi-year period. During planning, each project is progressively developed with regard to capacity information, school input, community input, and other factors that may refine the scope of work.

The following table provides a summary of funding for the FY 2007 – FY 2012 CIP. **Note that the information provided in the table for fiscal years 2008 through 2012 is a preliminary funding plan which may change as additional information is gained for the project scopes, project costs and the availability of revenues.**
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<td>$71,276,641</td>
<td>$4,273,311</td>
<td>$258,071,691</td>
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*Includes $1,397,526 from FY 2005 close-out funds previously appropriated to the Schools’ capital reserve, $5,466,219 from the FY 2006 Capital Projects Fund budget for a capital reserve and $8,443,316 budgeted in the FY 2007 Capital Projects Fund for a capital reserve.

**FY 2012 Major Construction current revenues are shown as “TBD” because of the need to balance revenues and expenditures for the six-year period. Adding funds here would cause revenues to exceed expenditures.

Please see page 13 for specific projects associated with the Major Construction funds and page 50 for projects associated with Minor Construction/Major Maintenance as shown in the chart above.

**COMMUNITY INVOLVEMENT**

Throughout the facilities planning process, a variety of school and community stakeholders provide valuable feedback that helps shape the scope of the projects included in the CIP. Those stakeholders include local school communities, parents, citizen and civic groups, the broader Arlington community, County staff members and system-wide teacher/administrative staff. The Advisory Council on School Facilities and Capital Programs, a group that periodically reports directly to the School Board, provides input to the School Board and to APS staff. At the school level, the Building Level Planning Committees (BLPCs) participate directly in the design of individual projects. In this process, the BLPC works with an architect appointed by the School Board to determine how best to meet the goals and objectives for the project as approved in the CIP. Through consensus, the BLPC creates a schematic design that is presented to and approved by the School Board in terms of scope and budget.
SCHOOL BOARD DIRECTION

On September 22, 2005, the School Board provided the following direction on the FY 2007 – FY 2012 Capital Improvement Program:

- Implement current Capital Improvement Program to:
  - Renew school-owned buildings systematically;
  - Provide permanent learning spaces for all students with an emphasis on providing appropriate learning spaces in secondary schools;
  - Rank project urgency based on results of an independent consultant’s evaluation of buildings’ condition and need;
  - Respond to changing conditions; and
  - Recommend a prudent debt level that adheres to County debt guidelines.

More specifically, the Superintendent’s Proposed FY 2007 – FY 2012 CIP will:

- Set CIP priorities based on a revised priority system that will include updated building condition evaluations. These evaluations will be completed by an independent consultant and will include the following buildings:\footnote{In FY 2002, an independent consultant was hired to assess all school buildings not renewed in the last five years. The assessment included 23 buildings and was completed to determine building condition, the age and condition of major systems and spatial adequacy. The schools listed here are the schools previously surveyed that have not been under construction since the initial survey. Washington-Lee is not listed because construction will begin at that location prior to the development of the CIP. Jefferson is not included because a facility assessment has already been completed for that building.} Abingdon, Ashlawn, Barcroft, Barrett, Career Center, HB Woodlawn/Stratford, Henry, Long Branch, McKinley, Randolph, Reed, Taylor, Wakefield, Williamsburg and Yorktown.

- Respond to changing conditions and the assessment of needs presented in the CIP studies related to:
  - Jefferson facility assessment
  - Second Children’s School needs assessment
  - Analysis of LEED program
  - Performance contracting investigation
  - Synthetic turf assessment
  - Project cost escalation

- Assess space needs and priorities for non-traditional programs in the schools (REEP, High School alternatives, early childhood education, expansion of daycare facilities, etc.) to determine how to utilize space.

- Provide updates to out-year project costs consistent with findings of the project cost escalation system. Based on this study, initial\footnote{Initial CIP costs refer to the estimated construction costs included when the project’s construction costs first appeared in a CIP.} CIP costs will be escalated by 40% for all out-year projects for which no design work or facility assessment has been completed.
♦ Provide analysis of the debt associated with the planned projects, the effect on the availability of both operating and capital funds for FY 2007 and future years, and the degree to which the Schools’ debt fits the County’s debt guidelines.

♦ Reflect continued coordination of the County and Schools CIP processes and provide information on the interaction of County and Schools projects.

RESPONSE TO SCHOOL BOARD DIRECTION

♦ Arlington Public Schools’ Capital Improvement Plan is consistently based on the need to renew facilities on a regular basis and to create sufficient permanent learning spaces for students. The primary purpose of the program is to provide appropriate facilities to support the educational mission of the schools. Need is based on the ability of the existing facilities to support the educational program in a safe and cost-effective manner.

Additionally, data from the Arlington Facilities & Student Accommodation Plan (AFSAP) was used to inform issues of capacity and student enrollment. As enrollment is projected to continue to decline, capacity is not as much of a concern with this CIP as it has been with previous CIPs. Whereas in previous years the focus has been on elementary additions and renewals, the renewal of secondary schools and multi-use facilities is the focus of the FY 2007 – FY 2012 CIP.

♦ Based on the School Board’s direction, staff contracted with StudioJAED to perform an independent assessment of the building condition and educational adequacy of teaching spaces in 16 schools. The consultant’s report provided a comprehensive needs assessment from which data was extracted to update the major construction project ranking system. This updated ranking system served as the primary factor in determining which projects would appear in this CIP.

♦ Last year, the School Board’s direction to staff for the “off year” of the CIP included studies of various programs. The following is an overview of the findings of the studies along with staff recommendations and the ways in which those findings and recommendations have shaped the FY 2007 – FY 2012 CIP.

Jefferson Facility Assessment
Staff performed a detailed study of the existing Jefferson facility in 2005. The study started with the development of a program of spaces tailored to a capacity of 600 students. Next, a comprehensive facility assessment was completed. The Jefferson facility houses a middle school, a central kitchen, and a recreation center and community theater. All stakeholder groups were interviewed.

Findings indicate the need for substantial replacement of major building systems, such as heating ventilation and air conditioning (HVAC) as well as reconfiguration of middle school space and general code compliance improvements. Additional goals of a renewal will be the introduction of daylight into the academic portions of the building and improving the entry sequences for the school’s visitors, students, and staff. The findings and cost estimates prepared in the study have been used as the basis for the proposed renewal project contained in this CIP.
Second Children’s School Needs Assessment
This study found that the demand for a second childcare program like the Children’s School exists. However, based on discussions with the Children’s School Director and Board, the current Children’s School management (a private not-for-profit entity) does not wish to expand its services at this time given other priorities. Consequently, any replication of the current Children’s School in the southern part of the County would be run by an entity other than the Children’s School.

The proposed FY 2007 – FY 2012 CIP includes no plans for replication of the Children’s School program due to other more urgent capital needs. However, with declining enrollment, the potential exists for housing a second program in available space in schools in the future. It is staff’s recommendation that replication of the Children’s School program continue to be evaluated in subsequent AFSAP and CIP planning.

Analysis of LEED Program
Staff studied the US Green Building Council’s (USGBC) Leadership in Energy and Environmental Design (LEED) program and found benefits to APS and to the Arlington community as a whole. At the same time, it was noted that the LEED program was initially designed for office buildings, not schools, and therefore in some areas does not appropriately align with the APS capital program. The USGBC is developing a LEED for Schools Application Guide to assist school building owners and designers in the application of LEED to school construction projects. The USGBC Schools Application Guide has not been made public at this time.

Staff recommendations provided as part of the study included a continued case-by-case review of LEED for specific projects, staying with basic or silver certifications, and monitoring LEED and other metrics to make sure that the most relevant, effective and cost efficient approaches to sustainable design are applied.

The bid for reconstruction of Washington-Lee High School has been awarded and the design includes sufficient points to warrant expectation of a silver LEED certification at that facility. We have used the Washington-Lee cost data as a key benchmark for setting the budgets for current CIP proposed projects, thereby embedding LEED costs within the cost estimates for other projects. We anticipate the provision of more detailed LEED information at the preliminary and final design submission to the School Board to affirm LEED participation on a project-by-project basis.

Additional information on the LEED program may be found at: http://www.usgbc.org

Performance Contracting Investigation
Performance contracting is a means of defining, acquiring, and paying for needed facility improvements through energy savings projected to be achieved by those very improvements. Staff has discussed this topic with several performance contract vendors, has researched generalities of performance contracting, and is now developing an application model to test the generalities as well as to formulate a concrete recommendation regarding this methodology.

The FY 2007 preliminary (pre-design) study recommended for Wakefield as part of the FY 2007 – FY 2012 CIP is anticipated to include this performance contracting application model. This will support the completion of the study.
Synthetic Turf Assessment

This study found that, in general, Health and Physical Education staff is satisfied with the level of access to outdoor physical education provided by the natural turf fields now in service at schools across the county. It makes sense to consider synthetic turf fields in cases where there is a combination of significantly increased usage (requiring more fields to accommodate demand) and escalating land values (making new fields too expensive to purchase), as is the case in Arlington. However, this increased usage is a function of community demand; APS demand for field space, for both athletics and PE, is generally in balance with supply except when construction disrupts field availability. The full cost of ownership (installation and maintenance) of synthetic turf fields is more costly during at least the first 10 years. Based on these findings, no new synthetic fields are recommended in the proposed CIP.

Project Cost Escalation

A study was completed to evaluate the changes in estimated and actual project costs over time. The study centered on an analysis of 14 past projects and compared initial CIP estimates with final project costs. This analysis found that on average (mean), actual project costs were 46% greater than the initial project estimates. While project costs increased over the life of a project, the study showed that the bulk of the increase occurred between the project’s initial appearance in a CIP and the preliminary design submission. Changes occurring after the preliminary design phase of the project yielded an average cost increase of 3% on the projects studied. This finding indicates that scopes have been incomplete at the initial planning phases of projects and have required considerable refinement during design.

The FY 2007 – FY 2012 CIP addresses the findings of the project cost escalation study in that the cost estimating methodology for currently proposed major construction projects has been revised to reflect a portion of the building replacement value in conjunction with the Facility Condition Index (FCI) and Educational Adequacy criteria from the project prioritization. Additionally, we have increased the annual escalation factor significantly based on information received about expectations of future construction market conditions. Nonetheless, it remains difficult to predict the volatile conditions in the construction market.

Additional information on construction market escalation may be found on pages 18-19.

To address the issue of incomplete project scopes during the initial planning phases of projects, preliminary (pre-design) studies are recommended for projects at the Career Center and Wakefield. The goal of these studies will be to develop site-specific educational specifications, to study phasing options, and to investigate needs and approaches to the project. Details on these preliminary studies are found beginning on page A-2 of the appendix.

♦ The FY 2007 – FY 2012 CIP addresses needs and priorities of both traditional and non-traditional programs. The AFSAP reports the availability of limited excess capacity in our existing building inventory, and how that inventory will be put to use to support programs where appropriate. Information from the AFSAP informs decisions in the CIP. For example, the CIP includes housing in available elementary school space the Virginia Preschool Initiative (VPI) classrooms previously slated for new/renewed space at Reed. This ensures that APS will not over-build its inventory - an especially important goal given declining enrollment and increasingly steep construction costs.
♦ The School Board’s direction included updating out-year project costs by applying a 40% escalation factor to the project’s initial CIP cost given the findings of the project cost escalation study. Since the majority of the 14 projects included in the cost escalation study were completed or were well underway before the construction market began reflecting drastic increases in escalation, it is not appropriate to assume project costs in the current construction market using the 40% escalator. Instead, staff used its understanding of facility needs (informed by the recent facility assessment) and the most current information on construction market outlook to develop a project by project cost recommendation.

♦ As part of the development of the FY 2007 – FY 2012 CIP, analyses of debt associated with the planned projects were performed. These analyses were based on existing debt and projected bond sales factoring in the anticipated schedules for future projects. Projects proposed by the County and APS for inclusion in the FY 2007 – FY 2012 CIP remain within the County guidelines in that debt per capita/per capita income does not exceed 6% and net tax-supported debt as a percentage of assessed property value does not exceed 4%. Additionally, the debt resulting from the projects proposed by APS complies with the guideline that total tax-supported debt service payments as a percent of current expenditures remain at or beneath 10% of projected APS expenditures. The financial analysis narrative, table and graph on pages 21-25 give more information about the debt analyses and the effect the debt associated with the proposed projects has on the availability of other funds.

♦ APS and County staff are communicating on the possibility of joint projects at several locations including the Reed School/Westover Library, the Career Center/Columbia Pike Library and Jefferson Middle School/Community Center.

In May 2006, a Memorandum of Understanding (MOU) regarding the redevelopment of the Reed School and the Westover Library was signed by the Superintendent and the County Manager. This agreement created a partnership for combining the Reed School project and the Westover Library project into one joint project which APS staff will coordinate. APS and the County have each included funds for projects at Reed/Westover in their respective FY 2007 – FY 2012 CIPs.

Additionally, both staffs recognize that there are considerable capital needs for each entity’s space allocations at the Career Center/Columbia Pike Library and at Jefferson Middle School/Community Center. APS’ FY 2007 – FY 2012 CIP includes funds for a preliminary study and design at the Career Center and design funding for a future construction project at Jefferson Middle School. While no funding is included in the County’s FY 2007 – FY 2012 CIP for the Columbia Pike Library or the Jefferson Community Center, County staff understands that there is a need for County involvement in at least the early planning phases of these two projects.
MAJOR CONSTRUCTION PROJECTS

Major construction projects include renewals, reconstructions and renovations as defined below:

- **Renewal**: a comprehensive project where virtually all systems are replaced, with a large amount of demolition that leaves only concrete, steel, and other structural elements remaining. This may include some elements of comprehensive demolition and new construction. Examples of renewal projects include Key, Oakridge, Science Focus, Tuckahoe, Hoffman Boston, Glebe and Nottingham.

- **Reconstruction**: complete demolition of a building, leading to new construction as a replacement for the demolished structure. Examples include the Langston and Kenmore projects, the Washington-Lee project which is currently in progress, and the planned project at Yorktown (Phase II). Drew also included a significant amount of reconstruction.

- **Renovation**: replacement of selected finishes or systems as determined necessary to bring the facility up to code or current standards. A recent example is the work done at Campbell Elementary.

Building additions are also considered major construction projects.

SOURCES OF FUNDS FOR MAJOR CONSTRUCTION PROJECTS

Major construction projects may be funded by bond financing, by current revenues, or a combination of the two. Bond financing is generated through the sale of municipal bonds. Arlington County issues general obligation bonds which must be approved by the County’s voters. Arlington County’s practice is to schedule bond referenda for even-numbered calendar years (which correspond to odd-numbered fiscal years). Additionally, as part of the annual budget process, Arlington County appropriates current revenues to APS which may be used for capital projects. The annual appropriation of current revenues to the Capital Projects Fund for capital improvements provides greater flexibility in addressing ongoing facility needs since Arlington has opted to seek voter approval for bond financing every other year.

BONDS

Although in some cases current revenues in the Capital Projects Fund are allocated to fund portions of major construction projects, large projects – those costing $500,000 or more with useful lives of 15 years or better – are typically funded with proceeds from bond sales. If a project is financed with bonds, it should have a useful life similar in length to the repayment schedule of the bonds issued for that project. Arlington Public Schools continues to implement a substantial bonded portion of the Capital Improvement Plan, and Arlington County voters have continued to approve bonds by a large majority. In 2002, a $79.0 million referendum passed with 78% voter approval, and in 2004, a $78.1 million bond was approved by 80% of the voters.
Since 1988 – the year of APS’ first CIP – no school bond referendum has failed voter approval. In fact, no school bond referendum has received less than 73% voter approval.

The following tables provide information on the projects that have been completed or are ongoing with the bond funds approved in the last two bond referenda. Summary information on all APS major construction projects since 1996 may be found on pages 55-56 in the History of the CIP section.

### 2002 Bond Referendum = $78,996,000

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<th>Completed Projects</th>
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<tr>
<td>Glebe – Construction of Renewal &amp; Addition</td>
<td></td>
</tr>
<tr>
<td>Jamestown – Construction of Addition</td>
<td></td>
</tr>
<tr>
<td>Kenmore – Construction of New Building</td>
<td></td>
</tr>
<tr>
<td>Nottingham – Construction of Renewal &amp; Addition</td>
<td></td>
</tr>
<tr>
<td>Swanson – Construction of Addition</td>
<td></td>
</tr>
<tr>
<td>Washington-Lee – Design of Reconstruction</td>
<td></td>
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<tr>
<td>Williamsburg – Construction of Addition</td>
<td></td>
</tr>
<tr>
<td>Yorktown – Construction of Addition</td>
<td></td>
</tr>
</tbody>
</table>

### 2004 Bond Referendum = $78,128,000

<table>
<thead>
<tr>
<th>Completed Projects</th>
<th>Ongoing Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenmore – Construction of New Building</td>
<td>Reed – Design of Renewal &amp; Expansion</td>
</tr>
<tr>
<td>Yorktown Phase II – Design of Reconstruction</td>
<td>Yorktown Phase II – Design of Reconstruction</td>
</tr>
</tbody>
</table>

### Funds Redirected to Construction Reserve

| Arlington Mill – Design of Reconstruction³ |

On November 7, 2006, voters will be asked to approve the 2006 bond. This bond referendum includes funds for the following:

### 2006 Bond Referendum = $33,712,000

| Career Center – Design of Renewal                      |
| Jefferson – Design of Renewal                          |
| Wakefield – Design of Renewal                          |
| Yorktown Phase II – Partial Funding of Reconstruction  |

**Current Revenues**

In addition to bond proceeds, projects may be funded with current revenues. Current revenues are funds other than those generated by the sale of bonds and are appropriated to APS on an annual basis through the annual budget process.

³ Initially, the Arlington Mill project was a County-Schools joint project. In Fall 2005, a recommendation was made by the County Manager and the Schools Superintendent to pursue Community Center and school programs separately. Based on that recommendation, these funds were transferred to the Construction Reserve.
In this CIP, current revenues are proposed to provide the following:

- the remaining portion of the funds necessary for the reconstruction project at Washington-Lee;
- preliminary studies of Wakefield and the Career Center;
- the Reed School construction project;
- a multi-site study to include the Career Center, the High School Continuation program currently housed at Arlington Mill, the middle schools, leased space and Wilson; and
- design and build-out of to-be-determined lease space for the High School Continuation program currently housed at Arlington Mill.

Note that the current revenue estimates provided in the table for fiscal years 2008 through 2012 provide a preliminary funding plan which may change as additional information is gained on the actual availability of revenues.

Current revenues budgeted within the Capital Projects Fund total $71,045,691 for the six-year plan. Of this amount, $45,375,588 is projected to be applied to major construction projects. The funds for major construction include $15,307,061 that the School Board has already set aside in a capital reserve over the last several years. Use of current revenues reduces the requests for bond funding.

The chart below shows the major construction projects planned over the next six years. Descriptions of each of the projects are found later in the document beginning on page 27.

- Grey highlights indicate funding from current revenues.
- Shading across all lines for fiscal years 2008 – 2012 indicates the funding shown is preliminary funding estimates which the School Board may change as additional information is gained for the project scopes, project costs and the availability of revenues.
- The funding plan assumes that any current revenues not used in the year in which they are received are carried forward for use in the following year(s) to reduce bond costs.
MAJOR CONSTRUCTION – SIX-YEAR PLAN

The projects in this CIP were identified and scheduled based on a facilities assessment conducted by the consulting firm StudioJAED, an updated prioritization process that takes into consideration building condition, educational adequacy, capacity concerns and special considerations. Considerable cost escalation in the construction market has also had a major impact on the cost estimates of projects included in this CIP and the affordability of those projects.

The following sections discuss the factors used to develop this six-year plan for major construction projects. As noted above, these factors include a revised project prioritization process, an updated analysis of capacity, construction market escalation and project affordability.

CAPACITY ANALYSIS

Projected student capacity for APS in September 2006 is 20,199 seats. This capacity includes additional space made available when Nottingham Elementary reopens and the music addition at HB Woodlawn is occupied. This number does not include capacity provided by relocatable classrooms. Overall, APS currently uses 89.5% of its building capacity and has 2,130 seats available countywide. These seats, however, are not evenly distributed throughout APS buildings. By 2009, when Phase I of the reconstructed Washington-Lee High School is occupied, APS’ total building capacity is projected to have increased to 20,359 (an increase of 160 seats or 0.8% of current capacity). This change in seating capacity throughout Arlington has been a direct response to the School Board’s direction to provide permanent learning space for APS students.

As student enrollment is projected to continue to decline, capacity is less of a concern with this CIP as it has been with previous CIPs. Whereas in previous years the focus has been on elementary additions and renewals, the renewal of secondary schools and multi-use facilities is the focus of the FY 2007 – FY 2012 CIP. Other than the project at Washington-Lee, none of the projects included in this CIP will increase school capacities.

The following table shows enrollment (current and projected) vs. capacity for each APS school building for the CIP planning years.
During the development of the FY 2003 – FY 2008 CIP, the School Board directed staff to “articulate clearly the process for determining the priority of projects and the process for scheduling the selected projects over the six-year CIP.” In response to that direction, Facilities and Finance staff members worked to develop a system for ranking capital projects. Staff researched a variety of ranking systems and methodologies and came to agreement on the factors and components of the ranking system. In an effort to continually improve our methods, the original system has been modified this year to better mirror the conditions in our facilities and the priorities of our stakeholders.

The system ranks projects according to a variety of technical standards. This ranking system serves as a tool for the Superintendent and his staff to use in recommending projects to the School Board. Its purpose is to determine relative need considering the building condition, capacity utilization, educational adequacy, and special considerations of each project considered for inclusion in the CIP. Each of these factors consists of underlying components that can be measured.

To inform the update of this project ranking system for the FY 2007 – FY 2012 CIP, APS hired StudioJAED consultants to assess building condition and the educational adequacy of teaching spaces through a survey of 15 schools. The schools surveyed were Abingdon, Ashlawn, Barcroft, Barrett, Career Center, HB Woodlawn/Stratford, Henry, Long Branch, McKinley, Randolph, Reed, Taylor, Wakefield, Williamsburg and Yorktown. This study provided both a comprehensive needs assessment for the studied schools as well as an independent and objective ranking of schools to determine the relative need of major construction projects. The
assessment method used by StudioJAED was based on a variety of industry standards and was augmented by APS-developed worksheets to gather qualitative information.

The full Facilities Assessment is available on the web at http://www.arlington.k12.va.us/facilities/planning/fac_assess.shtml

The factors of the ranking system and the rationale for each are described below. Each of the factors is assigned a total point value as indicated in parentheses.

Building Condition (50 points)

- Building Condition I (20 points) uses the Facility Condition Index (FCI), an industry standard, to represent the relative condition of each building. The FCI is computed by dividing the assessed renovation costs by the estimated cost of replacing the entire building. A higher FCI number (closer to 1.0) represents a building in poor condition.

- Building Condition II (10 points) assigns points based on the percentage of assessed needs that are in the Immediate or High Need categories. These are elements requiring attention in the very near term. In some cases the need is urgent.

- Building Condition III (20 points) points were assigned on the basis of qualitative factors that reflect systemic and environmental issues of particular concern to APS maintenance staff and school occupants.

Educational Adequacy (30 points)

- Educational Adequacy I (15 points) assigns points based on the percentage of teaching spaces in a school which are deficient when compared to the School Board’s adopted Space Guidelines. Only spaces smaller than the standard by more than 10% were counted as deficient in this measure.

- Educational Adequacy II (15 points) reflects qualitative educational inadequacies represented by things such as inadequate daylighting, open space classrooms, ineffective adjacencies and building layouts which hinder administrative supervision ability.

Capacity Analysis (20 points) -- Schools projected to be enrolled in excess of their capacities were assigned points. One point was assigned for each percentage point over capacity that a school was projected to be in FY 2010.

Special Considerations (10 points) -- This measure provides for certain other considerations to be quantified, such as: the need for swing space, the presence of economies of scale, project synergies, and so on.

The ranking calculation for each building surveyed is provided in the table below. A summary table of project scores follows.
It is important to note that while the prioritization scores of the projects serve as a guide for relevant needs, also factored into the placement of the projects within the six-year plan is staff’s knowledge of the functionality of current building structures and systems. Additionally, any one of the factors described above could be of such paramount importance that the project would receive the highest priority despite having a comparatively low overall ranking. For instance, if the major systems in a building failed, it may require that the facility be renewed or replaced immediately even if there were no capacity utilization or adequacy issues.
CONSTRUCTION MARKET ESCALATION

Soaring construction market costs have been a major concern during the last few years. APS has experienced significant increases in costs at projects at Kenmore, Nottingham and Washington-Lee due to this construction market escalation.

Drastic increases in the market price of steel first appeared early in 2004 as a construction boom began in China. Although two of the largest steel mills in the world had just opened in China, that country did not have the scrap steel reserve that exists in the U.S. and as a result, they were paying a premium to import as much scrap metal as possible. To increase their profits, American steel mills began exporting scrap metal to China, causing a shortage in the U.S. The February 23, 2004 edition of the Wall Street Journal featured a front-page article with the headline “Steel Prices Surge, Causing Problems For Manufacturers.” The article noted that “U.S. Steel Prices have jumped at least 30% in less than two months and continue to rise with such frequency that suppliers can’t predict them from week to week, causing buyers to stockpile supplies, scrounge for less-expensive alternatives and look for other ways to offset rising costs. The increase … is causing havoc for distributors, buyers and contractors down the supply chain.” During 2004 and 2005, the US steel industry reorganized. Supplies are better now, but prices have not returned to what they were before the spike.

Other products have also experienced major increases due to an extremely high demand for construction related materials given a high level of construction activity in both the residential and non-residential markets. Further, damages from Hurricanes Katrina and Rita resulted in higher gas prices which effected the cost of all petroleum-based construction products.

In his March 2006 report on construction inflation, Associated General Contractor’s of America’s chief economist Ken Simonson notes increases in many of the component materials of construction. While the following is not a complete list of all components of school construction, it is meant to serve as an example of recent increases in the market price of construction materials.

<table>
<thead>
<tr>
<th>Raw Materials</th>
<th>Increase 2004</th>
<th>Increase 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron and steel scrap</td>
<td>50.8%</td>
<td>-10.9%</td>
</tr>
<tr>
<td>Steel mill products</td>
<td>48.8%</td>
<td>-3.6%</td>
</tr>
<tr>
<td>Copper ores</td>
<td>65.1%</td>
<td>34.1%</td>
</tr>
<tr>
<td>Structural, architectural metals</td>
<td>26.1%</td>
<td>3.1%</td>
</tr>
<tr>
<td>Cement</td>
<td>7.9%</td>
<td>11.7%</td>
</tr>
<tr>
<td>Concrete products</td>
<td>9.8%</td>
<td>3.5%</td>
</tr>
<tr>
<td>Asphalt</td>
<td>17.8%</td>
<td>-8.1%</td>
</tr>
<tr>
<td>Plastic construction products</td>
<td>22.6%</td>
<td>10.7%</td>
</tr>
<tr>
<td>Gypsum products</td>
<td>18.2%</td>
<td>5.6%</td>
</tr>
</tbody>
</table>

Mr. Simonson concludes “The construction industry has much less opportunity than many other industries have to reduce or substitute materials. As a result, rising construction activity is likely to mean higher materials costs … Therefore, 2006 is likely to be another year of elevated construction materials prices, with selective shortages.”

Costs for projects in this CIP have been estimated using 2006 dollars and have then been escalated by 7.5% for each year from now until the midpoint of construction. Below is a table
showing local construction market escalation as reported by Downey & Scott, a local construction estimating firm.

**Revision of Cost Estimates**

A number of changes in project estimates since the last CIP were identified and quantified during the development of this CIP. It is generally APS' practice to fund design in one bond year followed by construction the next bond year. This practice of funding design and construction of projects in separate bond years allows the design to be well underway if not substantially complete prior to the next bond year, thus providing a more accurate construction cost for inclusion in the next funding period. This reflects a capital planning approach that starts with a basic project estimate followed by subsequent refinement over time; each CIP change reflects new input and information in developing projects over a multi-year period. During planning, each project is progressively developed with regard to capacity information, school input, community input, and other factors that may serve to focus the scope of work. However, since the FY 2007 – FY 2012 CIP includes a preliminary study of the Career Center, a preliminary study of Wakefield and a multi-site study that will review selected inter-related issues among a number of sites and due to the magnitude of costs associated with the projects being considered, design work included in the 2006 bond is not followed by construction in the 2008 bond at this time. The School Board plans to address these projects and the placement of these projects in the next full CIP.

In comparison with the FY 2005 – FY 2010 CIP, the costs of the projects included in the 2006 bond have been revised for the following reasons:
2006 Bond

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Abingdon Elementary</td>
<td>$707,900</td>
<td>$0</td>
<td>($707,900)</td>
<td>A,B</td>
</tr>
<tr>
<td>Jefferson Middle</td>
<td>$2,691,500</td>
<td>$2,435,000</td>
<td>($256,500)</td>
<td>A,D</td>
</tr>
<tr>
<td>Wakefield High</td>
<td>$0</td>
<td>$4,477,000</td>
<td>$4,477,000</td>
<td>A</td>
</tr>
<tr>
<td>Yorktown High – Phase II</td>
<td>$40,300,700</td>
<td>$24,800,000</td>
<td>($15,500,700)</td>
<td>A,C,F,G</td>
</tr>
<tr>
<td>Career Center</td>
<td>$0</td>
<td>$2,000,000</td>
<td>$2,000,000</td>
<td>A</td>
</tr>
<tr>
<td>Arlington Mill/High School Continuation</td>
<td>$10,277,300</td>
<td>$0</td>
<td>($10,277,300)</td>
<td>A,B,E,H</td>
</tr>
<tr>
<td>Reed</td>
<td>$9,648,600</td>
<td>$0</td>
<td>($9,648,600)</td>
<td>A,C,H</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$63,626,000</strong></td>
<td><strong>$33,712,000</strong></td>
<td>($29,914,000)</td>
<td></td>
</tr>
</tbody>
</table>

**Reasons for Revised Costs**

A. Revised facilities assessment information  
B. Change in project or design work timing  
C. Construction market escalation  
D. Clarified scope of work based on feasibility study  
E. Revised scope of work  
F. More thorough understanding of Educational Specification requirements  
G. Portion of project funding deferred to out-year  
H. Project funded with current revenues instead of bond funds

The 2006 bond is the smallest since 1996, and in “2006 dollars,” is the smallest bond since 1988. The graph on the following page shows the actual bonds since 1988 and the bonds in “2006 dollars” since 1988.
The ranking system described in the previous sections does not specifically address the issue of scheduling projects because it looks at needs and not at resources. Analysis of our financial condition interacts with the analysis of need and both must be considered in development of the final schedule or placement of projects over the six-year period of the CIP. As part of the CIP process staff reviewed our financial condition, worked with County staff to evaluate the County’s fiscal capacity and estimated the affordability of funding the identified projects.

Financial capacity is defined as the ability to maintain service levels, withstand disruptions in the regional and local economy and meet the demands of normal growth and development. Because bond ratings reflect a jurisdiction’s financial condition and management expertise, the effect of a bond proposal on these ratings is also a concern. Bond rating agencies use a number of measures to evaluate the capacity of a jurisdiction to take on additional debt. Typically these are measures of wealth and ability to pay, and include debt as a proportion of market value or assessed value, and debt as a proportion of total income. Although there is no legal limit in Virginia on the level of general obligation debt issued by Virginia counties, Arlington has issued and plans to issue its general obligation debt prudently. As such, County and APS staff use the following debt guidelines to develop both the County and APS FY 2007 – FY 2012 Capital Improvement Plans:

- Total tax-supported debt service payments as a percent of current expenditures will not exceed 10% (Here, current expenditures includes all funds except the Capital Projects Fund.)
- Debt per capita/per capita income ratio will not exceed 6%
- Net tax-supported debt as a percentage of assessed property value ratio will not exceed 4%
When assessing the debt guidelines, County and APS debt is combined for the debt per capita/per capita income ratio and the debt/property value ratio. However, each entity is assessed independent of the other for the debt service as a percent of current expenditures ratio. Upon review, the County staff determined that the projects put forward by the County and Schools meet the guidelines of the debt per capita/per capita income and net tax-supported debt/assessed property value ratios. Additionally, based on APS staff assessment of debt service as a percent of current (and projected) APS expenditures, the FY 2007 – FY 2012 CIP does not exceed 10% for this measure of affordability.

In FY 2007 for every dollar spent by APS on funds other than the Capital Projects Fund, approximately 7 cents will be applied to debt service. In FY 2012, assuming a 3.0% per year expenditures growth, it is anticipated that 9 cents of each dollar spent by APS will be applied to debt service.

The FY 2007 - FY 2012 CIP is based on the assumption of 4% growth in locally generated tax revenues for all years, 20 year bond payment terms and a fixed interest rate of 5.3% for bonds sold in all years. The analysis in the table on the following page assumes that, as shown in the major construction summary chart on page 13, $33.7 million is included in the 2006 bond, with $97.1 million in the 2008 bond and $56.2 million in the 2010 bond; a total of $187,026,000 over the six-year CIP period.

Debt service is incurred as a result of bond sales. To determine an estimate of when the bonds are sold for the projects, Facilities staff estimates the project schedules. The tentative start dates for the projects in the 2006 bond are identified below. Using the project schedules, Finance staff develops a cash flow projection for each project. The debt service detailed on the following page is based on the project schedules and the cash flow analysis. Projected schedules for the projects in the 2006 bond are as follows:
During development of this CIP, Finance staff performed and analyzed nearly forty different financial scenarios in which the variables were project timing, project costs, use of current revenues, sale of bonds and growth in County revenues. These scenarios provided estimates of the funds available for years FY 2008 through FY 2012 when considering the cost of continuing services along with additional debt service caused by the proposed projects, capital reserves, and projected growth in County revenues given projected declines in enrollment.

The table on the following page provides information from the financial analysis performed for the School Board’s Adopted FY 2007 – FY 2012 CIP. The assumptions made for this analysis include:

- total locally generated County revenues increase by 4.0% per year;
- total County re-estimated revenue of $12.5 million annually,
- the existing Revenue Sharing Agreement continues, but the rate at which APS shares revenue declines as a result of projected declining enrollment;
- State revenues increase by 4.0% per year;
- Federal revenues increase by 2.0% per year;
- debt service is based on the sale of bonds for a 20 year term at a fixed interest rate of 5.3%
- budgeted carry-forward equals $2.5 million on an annual basis;
- use of current revenues to fund major construction projects (as shown on the funding chart on page 13); and
- cost of continuing services other than Minor Construction/Major Maintenance is estimated at approximately 87% of total revenues.

The “Funds Remaining for New Initiatives” column is derived by subtracting all other columns from the “Estimated Total Revenue” column.
<table>
<thead>
<tr>
<th>FY</th>
<th>Estimated Total Revenue</th>
<th>Est. Cost of Existing Services (including MC/MM)</th>
<th>Debt Service</th>
<th>Est. Use of Current Revenues for Construction</th>
<th>Funds Remaining for New Initiatives</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Existing</td>
<td>New</td>
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</tr>
<tr>
<td>2008</td>
<td>$407,455,227</td>
<td>$358,926,410</td>
<td>$27,512,898</td>
<td>$2,464,790</td>
<td>$5,069,481</td>
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<td>2009</td>
<td>$420,252,430</td>
<td>$370,113,869</td>
<td>$26,718,981</td>
<td>$6,242,246</td>
<td>$6,614,046</td>
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<td>$433,417,588</td>
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<td>$25,422,687</td>
<td>$11,896,011</td>
<td>$7,512,470</td>
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<td>2011</td>
<td>$446,986,809</td>
<td>$393,482,296</td>
<td>$24,584,482</td>
<td>$14,553,118</td>
<td>$10,872,530</td>
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<td>$460,971,388</td>
<td>$405,741,333</td>
<td>$23,549,075</td>
<td>$17,728,354</td>
<td>$0</td>
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</table>
MAJOR CONSTRUCTION PROJECT DETAIL DESCRIPTIONS

In this section of the CIP, an overview is provided for each of the projects planned in the next six years. The overviews include a general description of the project, and an assessment of the operating impact of the project. Also provided is a table that shows the fiscal year or bond year in which funds are planned over the six-year planning period (FY 2007 – FY 2012). Where applicable, prior year funds are noted.
Jefferson was constructed in 1972. In 2005, a planning study was initiated to evaluate the current conditions at the school and to provide recommendations for the renewal of the facility. The study was completed in June 2005 and recommended a comprehensive renewal of the existing building to bring classrooms to current APS standards, meet ADA standards, replace existing mechanical, electrical and plumbing system, enhance building security, and improve the architectural character of the building. The planning study did not address the County’s co-located community center in detail. However, the code compliance and systemic upgrades would effect the entire facility, including the community center. It is important to note that the existing facility is designed to support a greater number of students than the current and projected enrollments. Staff recommends a study of projected program needs across the school system to determine appropriate uses for the excess capacity, or other options for efficient use of existing space. Funding for design of the project is included in the November 7, 2006 bond referendum. Although construction funding is not included in this CIP, the 2005 feasibility study estimated the cost of renewal at $32.4 million based on a capacity of 600 students.

County theater and recreation facilities are co-located with the Jefferson school building. While no funding is included in the County’s FY 2007 – FY 2012 CIP for the Jefferson Community Center, County staff understands that there is a need for County involvement in at least the early planning phases of this project.

Since a renewal project replaces virtually all building systems, it is expected that this project will affect utility costs. However, until the project is designed with the scope of work defined and until specific systems are identified for use in the construction, the effect on utilities cannot be quantified. Since no additional square footage is planned, this project is not expected to impact the cleaning supply budget, custodial or other employee allocations, relocatables or the furniture and equipment budget.
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<td>Bond</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<td>$2,435,000</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>$2,435,000</td>
</tr>
</tbody>
</table>
Wakefield High School
4901 S. Chesterfield Road, Arlington, VA 22206

FY 2007 Capacity: 1,564
FY 2007 Enrollment: 1,459

FY 2012 Capacity: 1,600
FY 2012 Enrollment: 1,200

Project Cost Estimates
Preliminary Study: $100,000
Design: $4,477,000
Construction: TBD

Project Description
Wakefield was constructed in 1953. A pool was added in the 1970s. Major building systems including plumbing and HVAC require significant investment. In addition, the building lacks fire sprinklers. Renovations are required to bring the facility up to current space guidelines. The project will include renewal of the pool. Funding for the design of the project is included in the November 7, 2006 bond referendum.

A preliminary study is recommended for this project prior to the design phase. The study will evaluate project scope and phasing, as well as assessing the potential for performance contracting for a portion of the necessary work. Funding for the preliminary study will come from current revenues previously set aside by the School Board for the purpose of major construction. A full description and timeline for the Wakefield preliminary study is included in the appendix on page A-3.

Operating Impact
Since this project is expected to include significant HVAC and other major building systems work, it is expected that this project will affect utility costs. However, until the project is designed with the scope of work defined and until specific systems are identified for use in the construction, the effect on utilities cannot be quantified. Since no additional square footage is planned, this project is not expected to impact the cleaning supply budget, custodial or other employee allocations, relocatables or the furniture and equipment budget.
## FY 2007 – FY 2012 Project Funding

<table>
<thead>
<tr>
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<td>$4,577,000</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>$4,577,000</td>
</tr>
</tbody>
</table>
WASHINGTON-LEE HIGH SCHOOL
1300 N. QUINCY STREET, ARLINGTON, VA 22201

FY 2007 Capacity  1,468
FY 2007 Enrollment  1,495
FY 2012 Capacity  1,600
FY 2012 Enrollment  1,229

Project Cost Estimates
Design  $4,514,000
Construction  $94,539,350

PROJECT DESCRIPTION
Scheduled to begin in Spring 2006, the project at Washington-Lee entails phased new construction of an approximately 350,000 square foot facility which will accommodate 1,600 students and will include a new 10-lane community swimming pool. The new school will strive to earn Leadership in Energy and Environmental Design (LEED) certification for being environmentally sound and energy efficient. The project will also provide approximately an acre of additional green space as the currently sprawling building will be tightened into a new four-level building. The total project cost is $99,053,350.

OPERATING IMPACT
Based on added square footage and improved energy efficiency, operating impact in the first year (FY 2010) of operation for Phases I and II is estimated at $452,135 which includes 6.0 additional custodians ($263,016), additional utility costs ($178,612) and additional cleaning supplies ($10,507). In FY 2008, the first year in which Phase I of the project will be occupied, furniture and equipment funds estimated at $525,000 will be needed. Phase I is not expected to generate additional operating costs since it will replace an existing part of the building that will be demolished. Offsetting these added costs, but separate from the Operating budget, is an anticipated annual savings of approximately $20,000 in the Capital Projects Fund due to the planned removal of four relocatables.

Although mechanical, electrical and plumbing systems in the new building will likely be more energy efficient than those in the existing building, it is difficult to estimate additional utilities cost savings at this point. Given our experience on other major construction projects, it generally takes some time after construction to configure the systems to operate at their most efficient settings.
FY 2007 – FY 2012 PROJECT FUNDING

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In addition to the funds shown in the table above, funds have been approved for the Washington-Lee reconstruction project as follows:

- $1,609,000 – 2002 bond (design)
- $72,735,300 – 2004 bond (construction)
- $8,767,462 – FY 2005 current revenues - Capital Projects Fund (construction)
- $83,111,762

Also, the County will contribute $750,000 for the construction of two additional pool lanes.
Yorktown High School
5201 N. 28TH STREET, ARLINGTON, VA 22207

FY 2007 Capacity 1,595
FY 2007 Enrollment 1,602
FY 2012 Capacity ~1,600
FY 2012 Enrollment 1,331

Project Cost Estimates
Design $5,498,000
Construction $96,589,000

Project Description
Following the 2005 completion of a 31 classroom addition, the site Master Plan (2002) calls for reconstruction and renovation of the remaining portions of the building, resulting in a new high school that will accommodate approximately 1,600 students. The completed building will include about 338,000 square feet (55,000 sq. ft. in the 31 classroom addition, about 264,000 sq. ft. for the reconstruction of remaining portions and about 19,000 sq. ft. for a pool with associated support spaces.) Construction will be phased as students will remain on the site during the construction period. Relocatable classrooms or other temporary facilities will likely be needed to accommodate the full educational program during construction. The approximately four-year construction period is expected to begin in Summer 2008.

Operating Impact
Since this project is expected to include significant HVAC and other major building systems work, it is expected that this project will affect utility costs. However, until the project is designed with the scope of work defined and until specific systems are identified for use in the construction, the effect on utilities cannot be quantified. Since no additional square footage is planned, this project is not expected to impact the cleaning supply budget, custodial or other employee allocations, relocatables or the furniture and equipment budget.
## FY 2007 – FY 2012 PROJECT FUNDING

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In addition to the funds shown in the table above, funds have been approved for the Yorktown reconstruction/renewal project as follows:

$2,225,900 – 2004 bond (design)
HIGH SCHOOL CONTINUATION
ADDRESS TO BE DETERMINED

Project Cost Estimates
Design $150,000
Construction $2,500,000

The picture to the right is Langston, the location of one High School Continuation Program.

PROJECT DESCRIPTION
The need to relocate the High School Continuation program currently housed at Arlington Mill arises from the County’s plans to go forward with a public/private partnership, and the joint County/APS recommendation to house the High School Continuation program elsewhere. This CIP anticipates the program to be housed in leased space, the location of which has not yet been determined. Current revenues the School Board has set aside for the purpose of major construction are expected to fund the design and build-out of the to-be-determined leased space.

The multi-site study which is described on page 42 and on appendix pages A1-A2 includes the High School Continuation program. As assessment of options for the co-location of programs for middle schools, High School Continuation, and the Career Center will be conducted as part of the multi-site study.

OPERATING IMPACT
Until a location is determined for the program, the project is designed with the scope of work defined and specific systems are identified for use in the construction, the operating impact cannot be quantified.

FY 2007 – FY 2012 PROJECT FUNDING

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CAREER CENTER
816 S. WALTER REED DRIVE, ARLINGTON, VA 22204

FY 2007 Capacity  N/A
FY 2007 Enrollment  459
FY 2012 Capacity  N/A
FY 2012 Enrollment  459

**Project Cost Estimates**

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**Project Description**

The Career Center was constructed in 1973. It has seen various interior renovations. At this time, major building systems do not meet current building codes and have outlived their expected life. In addition, the school was designed with demountable partitions, which no longer provide appropriate separation of teaching areas. Educational adequacy is difficult to assess because the specialized career and technical education programs do not neatly align with APS space guidelines. However, Career Center staff has requested an assessment and substantial reconfiguration of the partitioning within the facility.

A preliminary study is recommended for this project to develop a site-specific educational specification and to determine the scope of improvements required to bring the facility up to current standards and to serve the career and technical education programs of the future. Additionally, the multi-site study which is described on page 42 and appendix pages A1-A2 includes the Career Center. As assessment of options for the co-location of programs for middle schools, High School Continuation, and the Career Center will be conducted as part of the multi-site study. Full descriptions and timelines for the Career Center preliminary study and the multi-site study are included in the appendix beginning on page A-2.

The County’s Columbia Pike Library is housed within the overall Career Center facility and shares major building systems with the Career Center program. While no funding is included in the County’s FY 2007 – FY 2012 CIP for the Columbia Pike Library, County staff understands that there is a need for County involvement in at least the early planning phases of this project.

**Operating Impact**

Since this project is expected to include significant HVAC and other major building systems work, it is expected that this project will affect utility costs. However, until the project is designed with the scope of work defined and until specific systems are identified for use in the construction, the effect on utilities cannot be quantified. Since no additional square footage is planned, this project is not expected to impact the cleaning supply budget, custodial or other employee allocations, relocatables or the furniture and equipment budget.
## FY 2007 – FY 2012 Project Funding

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REED SCHOOL
1644 N. MCKINLEY ROAD, ARLINGTON, VA 22205

FY 2007 Capacity 165
FY 2007 Enrollment 165
FY 2012 Capacity 258
FY 2012 Enrollment 258

Project Cost Estimates
Design $991,000
Construction $12,150,000

PROJECT DESCRIPTION
The existing Reed School was constructed in the early 1900s with several additions occurring through the 1950s. The recent facility assessment and initial analysis by the design team indicate a probable cost equivalent to a replacement facility. The Reed project is in the early design phase. The project supports early childhood programs as well as the Teen Parenting Program. The early childhood program includes the Children’s School and Integration Station. The total program anticipates the need for a 45,000 square foot facility.

The CIP includes housing in available elementary school space the Virginia Preschool Initiative (VPI) classrooms previously slated for new/renewed space at Reed. This ensures that APS will not over-build its inventory - an especially important goal given declining enrollment and increasingly steep construction costs.

In May 2006, a Memorandum of Understanding (MOU) regarding the redevelopment of the Reed School and the Westover Library was signed by the Superintendent and the County Manager. This agreement created a partnership for combining the Reed School project and the Westover Library project into one joint project which APS staff will coordinate.

OPERATING IMPACT
Since this project is expected to include significant HVAC and other major building systems work, it is expected that this project will affect utility costs. However, until the project is designed with the scope of work defined and until specific systems are identified for use in the construction, the effect on utilities cannot be quantified. Since no additional square footage is planned, this project is not expected to impact the cleaning supply budget, custodial or other employee allocations. Relocatables will likely be necessary during the construction phase unless other temporary arrangements are made to house the students in the programs at Reed. Also, replacement furniture and equipment may be necessary.
## FY 2007 – FY 2012 PROJECT FUNDING

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In addition to the funds shown in the table above, funds have been approved for the Reed School project as follows:

$860,000 – 2004 bond (design)
**MULTI-SITE STUDY**

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<td>FY 2012 Capacity</td>
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<td>FY 2012 Enrollment</td>
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</table>

**Project Cost Estimates**

| Study | $250,000 |

**PROJECT DESCRIPTION**

A comprehensive study of several sites and selected inter-related issues that require further analysis is funded by current revenues. Included in the study are the Career Center, the High School Continuation program currently housed at Arlington Mill, the middle schools, leased space and Wilson, individually, and as they may relate to each other. The goals of the study are:

- to continue to ensure that APS programs are well supported by adequate facilities;

- to reduce lease costs;

- to identify and quantify the potential economic value of certain properties;

- to identify and assess the potential for and feasibility of Virginia’s Public/Private Education Facilities and Infrastructure Act (PPEA) and/or other alternative financing options; and

- to support the efficient use of space.

A complete description of and a timeline for the multi-site study are included in the appendix beginning on page A-1.

**OPERATING IMPACT**

N/A
## FY 2007 – FY 2012 PROJECT FUNDING

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</table>
The Capital Projects Fund includes three programs:

- Minor Construction/Major Maintenance (MC/MM)
- Major Construction
- Joint Projects

Until FY 2005, the Capital Projects Fund, which is funded by current revenues, included only the Minor Construction/Major Maintenance program. However, with the increased desire to allocate current revenues to major construction projects such as renewals and additions it was necessary to establish a second program to distinguish funds for major construction from those allocated for minor construction/major maintenance projects. Additionally, a third program was established in which to account for funds received from the County as reimbursement for its share of joint construction projects. The Joint Projects program is essentially a holding account in which the funds reimbursed APS by the County are held until being paid out upon receipt of the next construction invoice on the joint project.

Prior to FY 2002, the funding level of the Capital Projects Fund had remained relatively constant. In the years prior to FY 2002, APS was under the assumption that there was a cap on the funding available for the Capital Projects Fund. So regardless of capital needs, the total Capital Projects Fund increased from year to year by not more than 3%. At a joint County Board/School Board meeting in September 2000, it appeared that the County had not assumed there was a cap on the fund. Therefore, beginning in FY 2002, the Capital Projects Fund budget was increased to begin addressing the backlog of major maintenance needs of the buildings and the continued need for relocatables. The graph below shows the Capital Projects Fund adopted budgets from FY 2002 through FY 2007.

Of the total FY 2007 Capital Projects Fund allocation of $13,459,106, $8,443,316 (62.7%) is applied to major construction projects to reduce the amount of the 2006 bond. The following table shows the funds budgeted in the Capital Projects Fund as part of each adopted budget since FY 2002.
MINOR CONSTRUCTION/MAJOR MAINTENANCE

The Minor Construction/Major Maintenance (MC/MM) program of $4.3 million for FY 2007 provides funding for major system and component replacement, improvements in the configuration of educational spaces and facility systems, and a budget reserve. In most cases, the cost of a MC/MM project will generally not exceed $500,000.

This year, over 300 requests estimated at more than $12 million were received from principals, program managers and building managers in the Fall for consideration. The MC/MM Committee comprised of members of the Facilities and Finance departments and representatives from each principal group reviewed all requests based on the following criteria:

- Mandates
- Immediate Instructional Needs
- Essential Building Repairs
- General Instructional Enhancements
- General Building Enhancements

Within these criteria, according to information received from the Facilities department after their assessments of the requested projects, the Committee categorized the projects as:

- Urgent – cannot be delayed; needed immediately for health and safety reasons
- Necessary – needed within 3 years to maintain basic level and quality community services
- Desirable – needed within 4-6 years to improve quality and level of service
Based on this system, an Urgent Immediate Instructional Need receives a higher priority than a Necessary Immediate Instructional Need. Similarly, a Desirable Immediate Instructional Mandate ranks higher than an Urgent Essential Building Repair. Some requests were forwarded to the Maintenance department to be completed as work orders. Once the remaining requests were reviewed and prioritized according to the criteria listed above, the recommended projects were presented to Senior Staff.

The MC/MM projects for FY 2007 identified on pages 51-53 total $4,263,507.

**MAJOR CONSTRUCTION**

As part of the close-out of FY 2005, the Schools were re-appropriated $2,486,572 from a combination of budget savings and re-estimated revenue. Those funds were then set aside in a capital reserve. As part of the FY 2006 budget, $5,466,219 was added to the capital reserve set-aside. Further, as part of the FY 2007 budget, the School Board allocated an additional $8,443,316 to the capital reserve.

At its April 6, 2006 meeting, the School Board approved a transfer from the Capital Reserve set aside to the Kenmore Middle School construction project for added costs on the completion of that reconstruction project. As such, the remaining capital reserve set aside totals $15,307,061. The FY 2007 – FY 2012 CIP allocates the remaining capital reserve set aside funding to preliminary studies at Wakefield and the Career Center; to a multi-site study; to design of the build-out of to-be-determined lease space for the High School Continuation program currently housed at Arlington Mill; to provide a portion of the additional funds necessary for the reconstruction project at Washington-Lee; and to the Reed construction project.

In addition to the capital reserve set aside, it is assumed that in fiscal years 2008 through 2011, current revenues of will be allocated for major construction each year. **Note that the current revenues currently included in the out-years of the CIP may change as additional information is gained for the project scopes, project costs and the availability of revenues.**

The FY 2007 – FY 2012 CIP provides a total of $45,375,588 in current revenues for major construction projects. These funds are shown on page 13 in the funding chart for major construction projects as well as on page 49 in the funding chart of projects anticipated for funding with current revenues.

**JOINT PROJECTS**

No funds are budgeted in this program. As noted previously, this program is essentially a holding account in which funds reimbursed APS by the County for joint projects are held until being paid out upon receipt of the next construction invoice for the joint project.

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<td>Transfer - Kenmore</td>
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FUNDING SUMMARY

As shown in the chart on the following page, the projections for out-year Capital Projects Fund allocations is derived in general by simply applying a 3% factor to the FY 2007 base.

The out-year projections shown are estimates only and will likely change, depending upon the availability of funds during budget development each year.
## Capital Projects Fund

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<td>$194,100</td>
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<tr>
<td>Consulting Fees</td>
<td>$150,000</td>
<td>$120,000</td>
<td>$129,600</td>
<td>$127,300</td>
<td>$131,100</td>
<td>$135,000</td>
<td>$139,100</td>
<td>$776,100</td>
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<tr>
<td>ADA Upgrades</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$25,000</td>
<td>$26,800</td>
<td>$27,400</td>
<td>$26,200</td>
<td>$29,000</td>
<td>$162,000</td>
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<tr>
<td>Comm. Activites Credit</td>
<td>($247,000)</td>
<td>($233,530)</td>
<td>$233,530</td>
<td>$233,530</td>
<td>$233,530</td>
<td>$233,530</td>
<td>($1,451,190)</td>
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<tr>
<td>Salaries*</td>
<td>$189,414</td>
<td>$648,641</td>
<td>$991,100</td>
<td>$959,700</td>
<td>$962,500</td>
<td>$1,004,800</td>
<td>$1,063,200</td>
<td>$5,772,741</td>
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<tr>
<td>Budget Reserve</td>
<td>$360,400</td>
<td>$193,144</td>
<td>$193,144</td>
<td>$193,144</td>
<td>$193,144</td>
<td>$193,144</td>
<td>$193,144</td>
<td>$1,150,084</td>
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<tr>
<td>Subtotal - MC/MM</td>
<td>$2,753,165</td>
<td>$5,015,790</td>
<td>$4,007,897</td>
<td>$4,022,897</td>
<td>$4,123,007</td>
<td>$4,177,111</td>
<td>$4,273,311</td>
<td>$22,570,103</td>
</tr>
<tr>
<td>Major Construction</td>
<td>see FY 07</td>
<td>$15,307,081</td>
<td>$5,089,401</td>
<td>$8,614,046</td>
<td>$7,512,470</td>
<td>$10,872,530</td>
<td>TBD</td>
<td>45,375,698</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$3,753,165</td>
<td>$20,322,651</td>
<td>$9,077,379</td>
<td>$10,678,843</td>
<td>$11,845,487</td>
<td>$15,649,641</td>
<td>$4,273,311</td>
<td>$71,046,691</td>
</tr>
</tbody>
</table>

Notes:

1) **Out-year figures shown are estimates only.** Funding for the Capital Projects Fund is assessed each year as part of the annual budget development and may change depending upon the availability of funds. Budgets for specific accounts will vary from year to year depending upon the types of projects funded.

2) FY 2012 Major Construction is shown as TBD because of the need to balance revenues and expenditures for the entire six-year period. Adding funds to this line would cause revenues to exceed the expenditures shown on page 13.

3) To keep actual major construction building costs separate from other capital costs, the 7.25 Major Construction positions moved to the Major Construction program in the Capital Projects Fund as part of the FY 2007 Budget are shown in the MC/MM salaries line item in the chart above.

4) The FY 2007 Major Construction total of $15,307,061 shown in the table above includes $1,397,526 from FY 2005 close-out funds previously appropriated to the Schools’ capital reserve, $5,466,219 from the FY 2006 Capital Projects Fund budget for a capital reserve and $8,443,316 budgeted from the FY 2007 Capital Projects Fund for a capital reserve.
The following list provides information for the minor construction/major maintenance projects planned for FY 2007. Listed is the name of the building at which the work will be completed, the account in which the funds are budgeted, a brief project description and the anticipated cost of the project. Specific projects for the out-years will be identified each year during the annual budget process.

**Arlington Traditional**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flooring</td>
<td>Replace carpeting</td>
<td>$180,000</td>
</tr>
<tr>
<td>Facility Improvements</td>
<td>Repair wall leaks</td>
<td>$33,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$213,000</td>
</tr>
</tbody>
</table>

**Barrett**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Improvements</td>
<td>Repair hallway roof leaks</td>
<td>$26,000</td>
</tr>
<tr>
<td>Roofing</td>
<td>Repair library roof</td>
<td>$38,000</td>
</tr>
<tr>
<td>Facility Improvements</td>
<td>Install ice cream freezer in kitchen</td>
<td>$4,500</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$68,500</td>
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</tbody>
</table>

**Campbell**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Improvements</td>
<td>Repair main office and classroom wall leaks</td>
<td>$16,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$16,000</td>
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</tbody>
</table>

**Career Center**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Improvements</td>
<td>Repair wall leaks</td>
<td>$50,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$50,000</td>
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</table>

**Claremont**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Improvements</td>
<td>Reduce cafeteria and stage noise</td>
<td>$20,310</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$20,310</td>
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</table>

**Gunston**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Improvements</td>
<td>Replace main office HVAC unit</td>
<td>$70,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$70,000</td>
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</tbody>
</table>

**HB Woodlawn**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Improvements</td>
<td>Repair front steps</td>
<td>$24,000</td>
</tr>
<tr>
<td>Roofing</td>
<td>Replace roof at music addition joint</td>
<td>$30,000</td>
</tr>
<tr>
<td>Grounds Improvements</td>
<td>Replace damaged retaining wall</td>
<td>$200,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$254,000</td>
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</tbody>
</table>

**Jamestown**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Improvements</td>
<td>Interior and exterior painting</td>
<td>$35,000</td>
</tr>
<tr>
<td>Flooring</td>
<td>Sand/refinish stage floor</td>
<td>$2,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$37,000</td>
</tr>
</tbody>
</table>

---
## School Board’s Adopted FY 2007 – FY 2012 Capital Improvement Plan

### Long Branch
- **Facility Improvements**
  - Interior and exterior painting: $70,000

### McKinley
- **Facility Improvements**
  - Install new ice cream freezer in kitchen: $4,500

### Nottingham
- **Facility Improvements**
  - Install new kitchen equipment: $40,000
- **Playgrounds**
  - Purchase and install playground equipment: $140,000

### Stratford
- **Contract Services**
  - Replace chiller (year 2 of 5 year lease): $39,586

### Swanson
- **Facility Improvements**
  - Install hand dryers: $8,000
  - Interior painting: $70,000
  - Install two new warming cabinets in kitchen: $3,400

### Taylor
- **Facility Improvements**
  - Replace stage curtains: $10,000
  - Replace exterior doors: $35,000
  - Walk-in refrigerator/freezer & double-stack oven: $20,000

### Wakefield
- **Building System Renewal**
  - Replace HVAC controls: $600,000
- **Flooring**
  - Sand/disk gym floor: $25,000
- **Grounds Improvements**
  - Concrete/shading for softball dugout - Title IX: $16,000
- **Facility Improvements**
  - Pool-pak repairs & component replacement: $23,000
  - Replace pool lockers: $15,000
  - Install salad bar: $7,500
  - Install a new warming cabinet in kitchen: $1,700

### Williamsburg
- **Building System Renewal**
  - Replace chiller: $150,000
- **Facility Improvements**
  - Install new ice cream freezer in kitchen: $4,500
  - Install salad bar: $7,500
  - Install new lighting in kitchen: $7,500

### Washington-Lee
- **Building System Renewal**
  - Repair various roof leaks: $50,000
- **Facility Improvements**
  - Pool-pak repairs & component replacement: $81,000
Yorktown

Facility Improvements  Install stadium sound system  $35,000
Facility Improvements  Pool-pak repairs & component replacement  $24,000
Locker Replacement  Replace pool lockers  $15,000

$74,000

System-wide

Relocatables  Relocatables at various locations  $403,720
Signage  Various projects - marquees  $50,000
Asbestos/Air Monitoring  Various projects  $139,000
Flooring  Replace flooring after asbestos abatement  $230,722
Facility Improvements  Security - various projects  $200,000
Energy Conservation  Retrofit inefficient lighting at various sites  $134,000
Energy Conservation  Energy management control system upgrades  $100,000
Facility Improvements  Installation of LCD projectors and TVs  $100,000
Consulting Fees  Various projects  $120,000
ADA Upgrades  Various projects  $25,000
Concrete Replacement  Various projects  $30,000
Roofing  Various projects  $75,000
Paving  Various projects  $150,000
Grounds Improvements  Various projects  $20,000
Playgrounds  Various projects  $30,000
Facility Improvements  Annual testing - fire alarms, sprinklerd, etc.  $129,500
Facility Improvements  Cafeteria hood cleaning  $13,600
Facility Improvements  Indoor Air Quality investigation & remediation  $75,000
Community Activities  Credit from the Community Activities Fund ($233,533)
Salaries  Salaries – MC/MM  $96,358
Salaries  Salaries/Admin Costs – Major Construction  $752,283
Budget Reserve  Budget Reserve  $193,144
Major Construction  Major Construction Reserve  $8,443,316

$11,277,110

SUBTOTAL - Current revenues allocated to MC/MM  $4,263,507
SUBTOTAL - Current revenues allocated to Major Construction  $9,195,599

TOTAL FY 2007 CAPITAL PROJECTS FUND  $13,459,106
Arlington Public Schools first began publishing a Capital Improvement Plan in 1988. The early CIPs included projects such as HVAC replacements, window replacements, recurring major maintenance like roof replacements and playground resurfacing and “facility alteration/new construction”. At that time, “facility alteration/new construction” included projects such as kitchen construction, installation of elevators and renovation of science labs. Today, with nearly two decades of capital improvement planning experience, APS now includes many types of projects in its CIP - some are quite small and straightforward while others are very large and complex.

In 1988, Arlington County first began issuing bonds for the school system. Through bond referenda from 1988 forward, the Arlington community has provided more than $375 million for school construction.

Since 1996, APS has renovated, renewed or expanded 16 schools; replaced or reconstructed four schools; constructed one entirely new school and one new track facility; and provided technology cabling for all schools. Also since 1996, the roof has been replaced at Wakefield and renovations to portions of the Ed Center have occurred. These projects and their actual costs (through December 31, 2005) may be found on the following page.

Additionally, since 1996, more than $50 million has been budgeted for smaller recurring maintenance projects. These types of projects were previously called Pay-Go, but are now called Minor Construction/Major Maintenance. Nonetheless, they are still funded by current revenues (non-bond) on a pay-as-you-go basis.

### Bond Referenda Summary

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1988</td>
<td>$12,800,000</td>
</tr>
<tr>
<td>1990</td>
<td>$23,000,000</td>
</tr>
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<td>1992</td>
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<td>1994</td>
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<td>1996</td>
<td>$29,120,000</td>
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<td>1998</td>
<td>$50,705,000</td>
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<tr>
<td>2000</td>
<td>$42,612,500</td>
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<tr>
<td>2002</td>
<td>$78,996,000</td>
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<tr>
<td>2004</td>
<td>$78,128,000</td>
</tr>
<tr>
<td></td>
<td>$375,886,500</td>
</tr>
</tbody>
</table>
For the joint projects at Drew, Gunston, Hoffman-Boston and Langston, the costs shown include the APS and County project costs. The costs shown are the final project costs except where otherwise noted.

### Renewals, Renovations and/or Expansion of 16 Schools

1. Abingdon ........................................... $685,243
2. Arlington Science Focus .......................... $8,213,531
3. Arlington Traditional ............................. $5,853,918 As of 3/31/06
4. Ashlawn ........................................... $1,022,579
5. Barrett ............................................. $3,417,215
6. Cambell ............................................ $2,325,153
7. Claremont ......................................... $7,596,177 As of 3/31/06
8. Glebe ............................................... $10,220,248 As of 3/31/06
9. Gunston Phases II & III ............................ $18,787,032
10. Jamestown ......................................... $5,844,715 As of 3/31/06
11. Key .................................................. $7,324,808
12. Oakridge .......................................... $6,925,880
13. Swanson .......................................... $6,350,455 As of 3/31/06
14. Tuckahoe ......................................... $5,892,673
15. Williamsburg ..................................... $3,485,959
16. Yorktown Phase I ................................. $9,311,923 As of 3/31/06

### Replacement/Reconstruction of 4 Schools

1. Drew ................................................ $12,953,317 As of 3/31/06
2. Hoffman-Boston ................................. $12,721,115
3. Kenmore ........................................... $33,623,671 As of 3/31/06
4. Langston .......................................... $9,312,155 As of 3/31/06

### One New School

1. Carlin Springs .................................. $15,232,091

### Other

1. Washington-Lee track .......................... $1,390,676
2. Wakefield roof replacement .................. $1,330,880
3. Ed Center renovations ......................... $2,295,333

Also, the addition and renovation project at Nottingham and the music addition project at HB Woodlawn are continuing and are expected to open in September 2006.
Included in the FY 2007 – FY 2012 CIP are three studies which are funded with current revenues. The description and timeline of each study is provided below.

MULTI-SITE STUDY DESCRIPTION AND TIMELINE

A comprehensive study of several sites and selected inter-related issues that require further analysis is proposed. Included in the study are the Career Center, the High School Continuation program currently housed at Arlington Mill, the middle schools, leased space and Wilson, individually, and as they may relate to each other. The goals of the study are as follows:

- To continue to ensure that APS programs are well supported by adequate facilities;
- To reduce lease costs;
- To identify and quantify the potential economic value of certain properties;
- To identify and assess the potential for and feasibility of PPEA and/or other alternative financing options;
- To support the efficient use of space.

APS will seek the services of a qualified multidisciplinary consultant team, including educational facility planning, real estate and financial (including PPEA) expertise, and architectural/engineering capability with knowledge of Virginia zoning and law. An RFP will be issued and a qualification-based selection will occur. The consultant team will be provided with the various studies already undertaken in order to maximize the efficiency of the effort. The study will result in a report that will include the following:

- A real estate analysis of selected sites and evaluation of potential for PPEA and other alternative financing mechanisms. The primary sites to be considered for PPEA are Wilson and the Career Center. Wilson may be treated as an optional study element, contingent on whether a joint County/APS project develops independently of this study in the near term, based on previous work. Other alternative financing mechanisms may include, but will not be limited to performance contracting and tax increment financing.

- An assessment of options for co-location of programs for the middle schools, High School Continuation, and the Career Center. This assessment will take into consideration existing and required capacity, site characteristics, program considerations, phasing, existing joint County uses, and other factors.

- The study will analyze current leases against projected needs, with options for medium and long-term housing of programs now in leased space.

The findings of the study will support the next CIP, as well as interim decisions regarding both permanent and leased facilities, consistent with the goals outlined above.
The timeline for this study is as follows:

Proposals due: October 24, 2006
Committee Membership approved: October 19, 2006
Contract approved by School Board: November 30, 2006
Notice to proceed issued: December 1, 2006
Draft report due to APS: February 28, 2007
Final report due: March 30, 2007
Board Information Item: April 12, 2007
Board Action Item: April 19, 2007

CAREER CENTER STUDY DESCRIPTION AND TIMELINE

The Career Center study will develop parameters for the program and study options for providing appropriate facilities. Specifically, the study will include:

- An educational specification based on the Division of Instruction’s recommended approaches to career and technical education (CTE). This will include, as a first step, an assessment of the current program model and alternative approaches.

- Alternative approaches to housing CTE on the Career Center site or in other location(s). The alternatives will consider Virginia Public-Private Education Facilities and Infrastructure Act (PPEA), phasing, and other relevant factors.

- A development of preliminary cost information regarding CTE facility needs, reflecting options for funding the project as described above.

- This study will take into account the potential for PPEA developed in the Comprehensive Study (described above), performance contracting, and the StudioJAED engineering study undertaken earlier this year.

Since the Career Center study relies on and may inform findings of the Multi-Site Study described above, the work of the two studies will require coordination.

The timeline for this study is as follows:

Proposals due: September 19, 2006
BLPC Memberships set: October 5, 2006
Contract approved by School Board: November 30, 2006
Notice to proceed issued: December 1, 2006
Final report due: April 23, 2007
Board Information Item: May 3, 2007
Board Action Item: May 24, 2007
Wakefield Study Description and Timeline

The Wakefield study will develop scope, project approach, and budget for the Wakefield renewal project. The study will include:

- The development of site-specific educational specifications;
- Alternative approaches to bringing the facility up to current building codes and into alignment with space guidelines and APS specifications;
- A phasing analysis; and
- A preliminary cost statement.
- This study will take into account the StudioJAED engineering study undertaken earlier this year.

The timeline for this study is as follows:

- Proposals due: September 19, 2006
- BLPC Memberships set: October 5, 2006
- Contract approved by School Board: November 30, 2006
- Notice to proceed issued: December 1, 2006
- Final report due: April 23, 2007
- Board Information Item: May 3, 2007
- Board Action Item: May 24, 2007