

June 13, 2008

MEMORANDUM

TO: The Buildings and Grounds Committee:

The Honorable Lewis F. Payne, Chair  
Daniel R. Abramson  
The Honorable Alan A. Diamonstein  
Susan Y. Dorsey  
Thomas F. Farrell, II  
G. Slaughter Fitz-Hugh, Jr.  
Vincent J. Mastracco, Jr.  
Don R. Pippin  
Gordon F. Rainey, Jr.  
W. Heywood Fralin, Ex Officio  
Michael Turner, Consulting Member

And

The Remaining Members of the Board:

A. Macdonald Caputo	Warren M. Thompson
Glynn D. Key	E. Darracott Vaughan, Jr., M.D.
Austin Ligon	John O. Wynne
	Adom Getachew

FROM: Alexander G. Gilliam, Jr.

SUBJECT: Minutes of the Buildings and Grounds Committee on  
June 13, 2008

The Buildings and Grounds Committee of the Board of Visitors met, in Open Session, at 8:15 a.m, Friday, June 13, 2008, in the Board Room of the Rotunda; The Honorable Lewis F. Payne, Chair, presided.

Daniel R. Abramson, Ms. Susan Y. Dorsey, Thomas F. Farrell, II, G. Slaughter Fitz-Hugh, Jr., Vincent J. Mastracco, Jr., Don R. Pippin, and W. Heywood Fralin, Rector, were present.

Michael A. Turner, Consulting Member of the Committee and a representative of the Council of Foundations, was present, as was Edmund Kitch, also a Consulting Member of the Committee and Chair of the Faculty Senate.

Also present were A. Macdonald Caputo, Warren M. Thompson, E. Darracott Vaughan, Jr., M.D., and Ms. Adom Getachew.

Present, too, were John T. Casteen, III, Leonard W. Sandridge, Alexander G. Gilliam, Jr., Paul J. Forch, Arthur Garson, Jr., M.D., Ms. Colette Sheehy, Ms. Susan A. Carkeek, James L. Hilton, R. Edward Howell, David J. Prior, David J. Neuman, Richard E. Rice, Jr., Donald E. Sundgren, and Ms. Jeanne Flippo Bailes.

The Chair asked for a motion to consider an addendum to the published Agenda. The Committee approved the necessary resolution.

RESOLUTION TO APPROVE ADDITIONAL CONSENT ITEM

RESOLVED, the Buildings and Grounds Committee approves the consideration of an addendum to the published Agenda.

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The Chair then asked Ms. Sheehy, Vice President for Management and Budget, to present the five items on the Consent Agenda and then asked for a motion to approve all five; four of the items required Committee action only, but the fifth was recommended to the full Board for approval. The motion was made and seconded, and all five items were approved.

CONSENT AGENDA - APPROVAL OF ARCHITECT/ENGINEER SELECTION FOR THE CONSTRUCTION OF THE ITC DATA CENTER

The first Consent item concerned the new ITC Data Center, a 12,500 gross square foot building to be put up behind the Printing and Copying Services Building on the Old Ivy Road. The Committee in October, 2007, approved the selection of the firm Osteen Phillips of Charlottesville for architectural services, but because of the highly specialized nature of the projected ITC facility, it is recommended that the architect/engineer be changed to Hypertect, Inc., of Roseville, Minnesota.

The Committee adopted the following resolution. Action by the full Board of Visitors is not required, but the resolution will be entered on the Minutes of the Board as a matter of record.

APPROVAL OF ARCHITECT/ENGINEER SELECTION FOR THE CONSTRUCTION OF THE ITC DATA CENTER

RESOLVED, Hypertect, Inc., of Roseville, Minnesota, is approved for the performance of architectural and engineering services for the construction of the ITC Data Center.

CONSENT AGENDA - APPROVAL OF ARCHITECT SELECTION FOR THE GARRETT HALL RENOVATION

Garrett Hall, built by McKim, Mead and White - the architects for several projects at the University after the Rotunda Fire in 1895 - as the Commons, the principal University dining hall, is to be renovated for use as the core building of the Batten School for Leadership and Public Policy.

Architectural Resources Group of San Francisco, in association with Frazier Associates of Staunton, is recommended as the architect for the project.

The Committee approved the following resolution. No further action by the full Board of Visitors is required, but the resolution will be entered on the Minutes of the Board as a matter of record.

APPROVAL OF ARCHITECT SELECTION FOR THE GARRETT HALL RENOVATION

RESOLVED, Architectural Resources Group of San Francisco, in association with Frazier Associates of Staunton, is approved for the performance of architectural and engineering services for the Garrett Hall Renovation.

CONSENT AGENDA - APPROVAL OF ARCHITECT/ENGINEER SELECTION, MEDIUM TEMPERATURE HOT WATER PIPING UPGRADE

There is a \$10million project to replace the medium temperature hot water lines between Garrett and Thornton Halls with new 18-inch diameter lines. The old lines are deteriorated and undersized and must be replaced before the first part of the South Lawn project, Bavaro Hall and the Information Technology Engineering Building are completed.

The firm Carter Burgess of Cary, North Carolina, is recommended for the project.

The Committee approved the following resolution. No further action by the full Board of Visitors is required, but the resolution will be entered on the Minutes of the Board as a matter of record.

APPROVAL OF ENGINEER SELECTION FOR THE MEDIUM TEMPERATURE HOT WATER PIPING UPGRADE

RESOLVED, Carter Burgess of Cary, N.C., is approved for the performance of architectural and engineering services for the Medium Temperature Hot Water Piping Upgrade.

CONSENT AGENDA - APPROVAL OF ARCHITECT/ENGINEER SELECTION FOR THE UNIVERSITY HOSPITAL - ELEVATORS

The elevators in the Medical Center are inadequate for the traffic they bear. Consultants have recommended the addition of a bank of two elevators, to be located across the lobby from the existing visitor elevators. It is proposed that this project be added to the contract of the architect for the Hospital Bed Expansion; SmithGroup of Washington thus is recommended.

On motion, the Committee approved the following resolution. No further action by the full Board of Visitors is required, but the resolution will be entered on the Minutes of the Board as a matter of record.

APPROVAL OF ARCHITECT/ENGINEER SELECTION FOR THE UNIVERSITY HOSPITAL - ELEVATORS

RESOLVED that SmithGroup of Washington, D.C., is approved for the performance of architectural and engineering services for the University Hospital - Elevators.

CONSENT AGENDA - APPROVAL OF ARCHITECT/ENGINEER SELECTION FOR THE PRIMARY CARE CENTER EXTERIOR REPAIRS

There are problems with the brick façade of the Primary Care Center, built in 1979, because of its age and construction. Whitlock Dalrymple Poston and Associates of Manassas is recommended as the architect/engineer for the replacement of the façade.

On motion, the Committee adopted the following resolution. No further action by the full Board of Visitors is require, but the resolution will be entered on the Minutes of the Board as a matter of record.

APPROVAL OF ARCHITECT/ENGINEER SELECTION FOR THE PRIMARY CARE CENTER EXTERIOR REPAIRS

RESOLVED, Whitlock Dalrymple Poston & Associates, Inc. of Manassas, is approved for the performance of architectural and engineering services for the Primary Care Center Exterior Repair.

CONSENT AGENDA - APPROVAL TO GRANT TEMPORARY AND PERMANENT EASEMENTS AND TO ENTER INTO PERMANENT RECIPROCAL PARKING AGREEMENTS FOR IVY ROAD FACILITIES

The University plans to build a Long Term Acute Care Hospital and an addition to the Moser Radiation Therapy Center, both on the Ivy Road, and to provide parking at the adjacent Northridge Medical Office Building and the Sieg warehouse - all of these facilities, at least for purposes of this resolution, are known collectively as the "Ivy Road Facilities."

It will be necessary to seek both temporary and permanent easements for the development of these projects.

On motion, the Committee adopted the following resolution and recommended it to the full Board for approval:

APPROVAL TO GRANT TEMPORARY AND PERMANENT EASEMENTS AND TO ENTER INTO PERMANENT RECIPROCAL PARKING AGREEMENTS FOR IVY ROAD FACILITIES

RESOLVED, the Board of Visitors deems proper and approves the conveyance to public bodies and public service corporations, and others, as applicable, of temporary and permanent easements for utilities (including, without limitation, storm water management easements) on property owned or leased by the Rector and Visitors of the University of Virginia, in connection with the development and redevelopment of certain properties: the Long Term Acute Care Hospital, Moser Radiation Therapy Center, Northridge Medical Office Building and the Sieg warehouse (collectively, the "Ivy Road Facilities"); and

RESOLVED FURTHER, the Board of Visitors deems proper and approves the establishment of reciprocal parking arrangements necessary and appropriate to facilitate the orderly development and redevelopment of the Ivy Road Facilities; and

RESOLVED FURTHER, the Executive Vice President and Chief Operating Officer is authorized, on behalf of the University, to negotiate, approve and execute agreements and to take such other actions as deemed necessary and appropriate to consummate such transactions.

ACTION ITEMS - PROJECT APPROVAL, SCOTT STADIUM SCORE/VIDEO BOARD REPLACEMENT

After taking the vote on the Consent resolution, the Chair asked Ms. Sheehy to continue with the Agenda.

Ms. Sheehy reminded the Committee that usually, the Board of Visitors approves major capital projects every two years; when new projects appear outside the biennial cycle, approval by the Buildings and Grounds and Finance Committees is required. In the instance of the proposed project to replace the scoreboard at Scott Stadium, the Finance Committee will review the financial plan and the Buildings and Grounds Committee will review the project itself.

Ms. Sheehy and Mr. Sandridge, Executive Vice President and Chief Operating Officer presented a brief outline of the project, which will be paid for by CBS Collegiate Sports Properties; the scoreboard will not be in place until the football season of 2009.

On motion, the Committee adopted the following resolution approving the project, and recommended it to the Finance Committee and to the full Board for approval:

APPROVAL TO ADD THE SCOTT STADIUM SCORE/VIDEO BOARD REPLACEMENT TO THE UNIVERSITY'S MAJOR CAPITAL PROJECTS PLAN

WHEREAS, the University proposes that the Scott Stadium Score/Video Board Replacement, budgeted at \$2.4 million, be added to the University's Major Capital Projects Program;

RESOLVED, the Board of Visitors approves the addition of this project to the University's Major Capital Projects Program.

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Mr. Neuman, the Architect for the University, presented the next three items.

ACTION ITEM - CONCEPT AND DESIGN GUIDELINES: NEW CABELL HALL RENOVATION PROJECT

New Cabell Hall was completed in 1952, and though carefully maintained, it has never been modernized in a comprehensive way. Some classrooms and offices have been renovated, but nothing has been done to the building as a whole.

The renovation will include the improvement of systems, such as replacing the heating equipment and installing central air conditioning, replacing the elevators, upgrading the plumbing and electrical systems, and so on. There will also be a new lobby in the south wing, the creation of public areas throughout the building and improvements to the classrooms, among other amenities. The project will include as well a connection between

the central entry to the building and the new South Lawn terrace, together with considerable landscaping.

Mr. Abramson commented that the planned renovation of the building made much more sense than the previous plan to demolish New Cabell Hall and replace it with something else, as part of the South Lawn Project.

On motion, the Committee approved the following resolution. Further action by the full Board of Visitors is not required, but the resolution will be entered on the Minutes of the Board meeting.

APPROVAL OF CONCEPT AND DESIGN GUIDELINES FOR THE NEW CABELL HALL RENOVATION PROJECT

RESOLVED, the concept and design guidelines, dated June 13, 2008, and prepared by the Architect for the University for the New Cabell Hall Renovation Project, are approved; and

RESOLVED FURTHER, the project will be presented for further review at the schematic design level of development.

ACTION ITEM - APPROVAL OF THE CONCEPT, SITE, AND DESIGN GUIDELINES, THE UNIVERSITY OF VIRGINIA'S COLLEGE AT WISE MULTIPURPOSE CENTER

The Greear Gymnasium at the College at Wise is outmoded, too small, and generally inadequate both as a gymnasium and as a community center for the College as well as for the region. Even with the planned renovations to the building, it will still be inadequate.

The College has proposed a Multipurpose Center, to be located adjacent to the Carl Smith Stadium on the other side of the campus. Concept, site and design guidelines have been prepared by the Architect for the University and the proposed resolution would approve these.

On motion, the Committee approved the following resolution. Further action by the full Board of Visitors is not required, but the resolution will be entered on the Minutes of the Board meeting as a matter of record.

APPROVAL OF CONCEPT, SITE, AND DESIGN GUIDELINES FOR THE UNIVERSITY OF VIRGINIA'S COLLEGE AT WISE MULTIPURPOSE CENTER

RESOLVED, the concept, site, and design guidelines, dated June 13, 2008, and prepared by the Architect for the University, for The University of Virginia's College at Wise Multipurpose Center are approved; and

RESOLVED FURTHER, the project will be presented for further review at the schematic design level of development.

ACTION ITEM - APPROVAL OF THE SCHEMATIC DESIGN, LEE STREET ENTRY TO THE HOSPITAL AND CONNECTIVE ELEMENTS

Mr. Neuman was joined by Mr. Howell, Vice President and Chief Executive Officer for the Medical Center, in presenting the proposed schematic design for the Lee Street entry to the Hospital. The project, as envisioned, draws together several disparate elements on Lee Street in the vicinity of the entrance to the Hospital and for the first time, creates a proper and easily recognized main entrance. It will tie in the new Couric Cancer Center, the parking garages, and the connectors to the other parts of the medical complex, with the Hospital itself.

On motion, the Committee approved the following resolution. Action by the full Board of Visitors is not required, but the resolution will be entered on the Minutes of the Board meeting as a matter of record.

APPROVAL OF SCHEMATIC DESIGN, LEE STREET ENTRY TO THE HOSPITAL AND CONNECTOR ELEMENTS

RESOLVED, the schematic design dated June 13, 2008, and prepared by Zimmer Gunsul Frasca Architects of Washington, D.C., for the Lee Street Entry to the Hospital and Connector Elements, is approved for further development and construction.

REPORT BY THE VICE PRESIDENT FOR MANAGEMENT AND BUDGET

Ms. Sheehy gave a brief report on the status of several building projects, most either just done or nearing completion. Her report included buildings at The University of Virginia's College at Wise.

REPORT BY THE UNIVERSITY BUILDING OFFICIAL

The Chair called for the annual report to the Board by the University Building Official. Ms. Sheehy reminded the Committee



that under the terms of the Management Agreement with the Commonwealth, pursuant to the Restructured Higher Education Financial and Administrative Operations Act of 2005, the University was required to designate a Building Official who would have responsibility for building code compliance at the University. The President, effective July 1, 2006, designated Richard H. Rice, Jr., P.E., as the University Building Official. Mr. Rice reports directly and solely to the Board of Visitors, and provides an annual report to the Board. A copy of this report is appended to these Minutes as an Attachment.

Mr. Rice gave a brief presentation to the Committee. In response to a question from Mr. Abramson, he assured the Committee that the appropriate Fire Marshalls have access to all buildings under construction, in addition to the regular inspections of completed buildings.

#### REPORT BY THE ARCHITECT FOR THE UNIVERSITY

Mr. Neuman gave his customary report, which he centered on two projects: the proposed Long-Term Acute Care Hospital to be built on the Ivy Road, adjacent to the Northridge Clinic, and an update on the status of current Historic Preservation projects in the Academical Village.

Mr. Howell joined Mr. Neuman in his discussion of the Long-Term Acute Care Hospital. He said the majority of the patients would be on ventilators or dialysis, and in many cases both. The new facility would free up badly needed beds in the main Hospital. Dr. Vaughan echoed Mr. Howell's statements on the need for the new Hospital.

Mr. Neuman's report on projects in the Academical Village included a number of things - among the most intriguing was the idea of replacing the cornice on Pavilion X with one equivalent in size and design to the original on the building.

#### THE LIBERTY BELL STATUE OF JEFFERSON

The President commented on the placement and condition of the base of the statue of Jefferson on the street side of the Rotunda, the so-called "Liberty Bell Jefferson." The statue is a second casting of a statue commissioned for the Jefferson County Court House in Louisville, and it was done by Sir Moses Ezekiel - who also did the statue of Homer in front of Cabell Hall - a Richmonder who had been a student at the Virginia Military Institute. The stone base of the statue shows some deterioration and there have been concerns expressed that it is out of scale both to the statue and to where it has been placed.

Returning to Mr. Neuman's report, Ms. Dorsey asked questions about contractors who do work building work at the University. Mr. Sundgren, Head of Facilities Management replied, citing figures.

The Chair referred Members to the several written reports in their Agenda Books.

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On motion, the meeting was adjourned at 9:45 a.m.

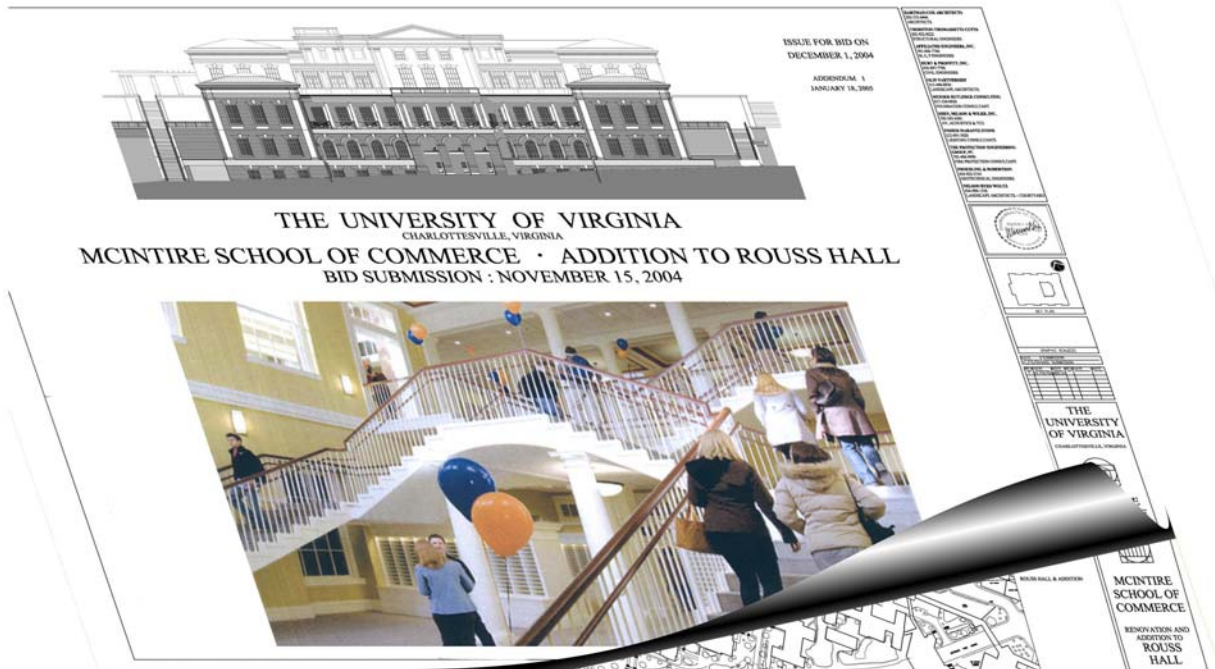
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These minutes have been posted to the University of Virginia's Board of Visitors website.

**ATTACHMENT**



# UNIVERSITY BUILDING OFFICIAL ANNUAL REPORT 2007—2008



## Rouss / Robertson

Certified for Occupancy

Spring Semester 2008

<http://www.virginia.edu/bov/buildingsgroundsminutes.html>

## Overview

The 2007-2008 year experienced a significant increase in number of building permits issued over the previous year in support of over \$500 million of construction in progress. Reviews of design and construction documents increased similarly over the previous year as did the number of construction inspections in preparation for final inspections for Certificate of Use and Occupancy.

Notable achievements included issuing 105 building permits, conducting 320 project reviews for 124 projects, and issuing Certificates of Use and Occupancy for Varsity Hall, Culbreth Road Parking Garage, Hedge House (Change of Use), and Rouss-Robertson Hall (before classes began on January 16, 2008).

In addition to participation in design development workshops, the Review Unit participated in four Value Management studies which identified potential cost savings without loss of value or function. As a result of these Value Management studies, cost saving measures totaling \$7.7 million were adopted.

## Background

The Management Agreement between the Commonwealth of Virginia and the University of Virginia pursuant to the Restructured Higher Education Financial and Administrative Operations Act of 2005 provides that the University designate a Building Official responsible for building code compliance. Effective July 1, 2006, Richard H. Rice, Jr., P.E. was designated the University Building Official, and is responsible for:

- Issuing permits for each capital project required by the Virginia Uniform Statewide Building Code to have a building permit;
- Determining the suitability for occupancy of, and issuing certifications for building occupancy for all capital projects requiring such certification.

## Review Unit

Under the terms of the Management Agreement the University is also required to maintain a Review Unit of qualified professionals to review plans, specifications and documents for compliance with building codes and standards, and perform required inspection of work in progress and completed capital projects. The University has maintained a Review Unit since 1991 under delegated State authority, that excluded fire and life safety reviews, for Agencies 207, 209 and 246. When the Medical Center was granted autonomy in 1996, the Review Unit assumed responsibility for all building code functions for Agency 209 facilities, including fire and life safety reviews. With the new authority granted through the Management Agreement in July, 2006, the University Building Official and Review Unit gained full authority for all three agencies. The Review Unit is staffed by six professionals licensed by the Commonwealth; four engineers and two architects (one part time), and their vitae are provided in this report. The University Building Official and the Review Unit work closely with the State Fire Marshal's office and the University Fire Marshal to insure compliance with applicable fire and life safety codes. Further, no Certificates of Use and Occupancy are issued until they have been inspected and approved by the State Fire Marshal.

The Review Unit is taking full advantage of the authority granted by the Management Agreement, completing fire and life safety reviews sooner than previously experienced when such reviews were conducted by staff in Richmond. In addition, as the Review Unit staff stays in constant communication with the UVA project managers and visit their projects, when a project has progressed to the point where it is ready for occupancy all issues have been resolved and Certificates of Use and Occupancy are issued promptly.

The Review Unit also supports the University community on a variety of technical and code related questions, ranging from helping building trades personnel with code questions for jobs they may have in progress to working with Facilities Management personnel responsible for integrating operational fire alarm and fire protection systems into the University Systems Control.

The Review Unit supports Facilities Management personnel and the University community on a variety of technical and code related questions, applications, and problem solving. In a continuing role of inter-community relations between the University, City of Charlottesville, and County of Albemarle, the Review Unit in 2007-2008 was engaged in a value engineering study for a transportation center for the City of Charlottesville, and a constructability review of an elementary school addition and renovation for the County of Albemarle.

### Reviews

320 project reviews (18% increase) were completed from July 1, 2007 to April 30, 2008 for a total of 124 projects. Major capital projects included South Lawn, Claude Moore Medical Education Building, Emily Couric Clinical Cancer Center, South Chiller Plant Expansion, Observatory Hill New Residence Hall, Bavaro Hall, College at Wise Science Building Renovations, College at Wise Smiddy Hall-IT Building, College at Wise Dining Hall, and College at Wise Student Residence.

Members of the University Building Official Review Unit participate in a variety of consulting roles for building code related issues such as athletic field lighting replacements, modification of the Rotunda fire protection system to prevent water damage from original deluge sprinkler system, the applicable maintenance requirements for cooking exhaust systems, and structural evaluations of existing buildings due to deterioration and vehicular damages.

Of the projects reviewed 49 were Academic projects, 51 were Health System (Hospital, School of Medicine and School of Nursing) projects, 4 were College at Wise projects, 10 were Housing/Business Operations projects, 6 were Athletics projects, and the remainder were not attributable to these categories. Notable examples, in addition to those mentioned above, include Monroe Hall Renovations; a series of Culbreth Theater projects; five projects in the Central Grounds Historic District; phased Hospital Radiology Department renovations; addition and renovations of Chancellor's House at College at Wise; McCue Center renovations; Telephone Exchange Infrastructure; Law School Faculty Offices; University Chapel fire alarm system;

Central Tower Hospital Bed Expansion; Old Medical School Portico restoration; Hospital Emergency Power upgrade for added capacity and emergency notifications; Moser Radiation Center linear accelerator replacement; numerous Hospital renovations; research related renovations; and upgrades to accommodate cooling of information technology equipment.

Building Permits and Certificates of Use and Occupancy  
105 building permits (90% increase) were processed along with 6 temporary structure (platforms and bleachers) permits from July 1, 2007 to April 30, 2008; requiring technical assistance by one or more of the members of the Review Unit in addition to the permit processing itself.

Final Certificates of Use and Occupancy (CUO) were issued for Varsity Hall, the Hedge House at the Miller Center (as a change in use from residential to business), the Culbreth Road (Arts Grounds) Parking Garage, and Rouss-Robertson. The opening of Rouss-Robertson in time for the Spring semester 2008 was made possible through an outstanding team effort by Gilbane Construction as the Construction Management firm, the State Fire Marshal, the Project Management team, the Review Unit Fire Protection Engineer, the tireless efforts of Facilities Management Fire Safety shop personnel, and the staff of the McIntire School of Commerce.

#### Value Management

In conjunction with the Office of the Architect for the University the Review Unit participated in Value Management studies for four capital projects with a fifth study scheduled.

- Claude Moore Medical Education Building, at pre-construction phase
- Bavaro Hall (Curry School of Education), at preliminary design phase
- Smiddy Hall - IT Building, at schematic design phase
- Hospital Central Tower Bed Expansion, at preliminary design phase



In lieu of the former (Bureau of Capital Outlay Management) 40-hour preliminary design Value Engineering process, this evolving joint value management effort with the Architect for the University for projects of \$5 million or greater, begins at the schematic design phase when there is greater opportunity to implement construction cost savings and add value to the functional design. Total savings identified and adopted during the four studies completed this fiscal year is approximately \$7.7 Million

The Review Unit participated in a preliminary value engineering study for the City of Charlottesville for a transportation center which resulted in a projected total accumulative cost reduction of \$2.66M for a Transportation Facility.

#### Support for the University Community

- The Review Unit assists organizations in the University community on code and design issues, performing design services for small projects when the time permits, participating in professional organizations, and when appropriate assisting community governmental administrations or other institutions of higher education.
- Members of the Review Unit have also provided advice and assistance to student projects.
- Rapid response to potential public safety issues such as the evidence of exterior brick veneer support problems, monitoring pre-stressed reinforcement cables at the Law School, structural investigations related to vehicular accident, and maintaining essential fire exit routes from existing buildings affected by nearby construction.
- Serving the community beyond the University. The Review Unit engaged in a value engineering study for a transportation center for the City of Charlottesville, and a constructability review of an elementary school addition and renovation for the County of Albemarle.

University Building Official and Review Unit Biographical Information

University Building Official: Richard H. Rice, Jr., PE,  
Certified Building Official  
BS United States Military Academy  
MS (Civil Engineering) Stanford University  
MS (Ocean Engineering) University of Miami  
MBA Golden Gate University  
Management Program for Executives, University of Pittsburgh  
Over 30 years of facilities management, construction, and engineering experience; having worked at the Smithsonian Institution as the Senior Facilities Services Officer, and numerous facilities planning, construction and management positions in the Department of Defense.

Chief Review Architect: Sandy H. Lambert III, AIA  
BS in Architecture, University of Virginia  
Member of American Institute of Architects  
Member of National Fire Protection Association  
Completed Virginia Code Academy Core and Advanced Modules as prerequisite to architectural and building official certifications; and advance training for technical, legal and management building official examination.  
Completing 26<sup>th</sup> year with Facilities Management.

- Virginia registered architect, 42 years professional experience, 17 years code review experience at University, (including first Chief Review Architect 1991).
- Primary responsibility is Assistant University Building Official, supervision of Review Unit, document reviews for architectural, ADA accessibility and contract administration requirements, and building code consultation.
- Primary editor of University Facilities Design Guidelines, contributing editor of University Higher Education Capital Outlay Manual (HECOM), and contributing editor of Facilities Management Division 1 Guideline Specifications.
- Building permit supervision and review, temporary event structure permit supervision and review.

Senior Mechanical Engineer: Ronald Herfurth, PE  
BS in Mechanical Engineering, Virginia Tech  
Continuing education with NFPA fire protection sprinkler training programs  
Member of American Society of Heating Refrigeration and Air-Conditioning Engineers  
State and International Code Council certified as mechanical plans examiner, plumbing plans examiner, commercial mechanical inspector, and commercial plumbing inspector.  
Current position since 1991 (completing his 20<sup>th</sup> year with Facilities Management).

- Virginia registered engineer, 29 years of commercial and institutional practice, including 16 years code review experience at the University.
- Primary responsibility is review and in-house consultation for plumbing, heating, ventilation and air conditioning, and energy management and conservation, value management studies, editing of University Facilities Design Guidelines, Certificates of Use and Occupancy inspections.
- Senior administrative assistant to Chief Review Architect and co-editor of University Facilities Design Guidelines.
- Standing member and chairman of interdepartmental Facilities Management HVAC Committee.

Senior Civil/Structural Engineer: Shashi Kavde, PE  
BS in Civil Engineering, National Institute of Engineering, Mysore, India  
MS in Structural Engineering: Drexel University, Philadelphia, PA  
Registered Professional Engineer in Virginia and New Jersey  
Member of American Society of Civil Engineers, American Concrete Institute and American Institute of Steel Construction  
Completed Virginia Code Academy Core Module Training as a prerequisite for examination leading to State Certification.  
Current position since 1996

- 31 years of civil and structural design and construction management for private and government projects (sports, mass transit, industrial, defense, research, environmental facilities, and institutional/residential buildings), plus

- 11 years at the University reviewing Construction Documents for Building Code Compliance and constructability for all projects.
- Additional responsibilities include editing of University Facilities Design Guidelines, HECOM Manual, Value Management Studies, Certificate of Use and Occupancy Inspections, and inter discipline/departmental coordination.
- Expedient inspections and in-house consultation for structural and civil engineering "hot-button" issues for University facilities.

Senior Electrical Engineer: Adrienne Hendrickson, PE  
 BS in Electrical Engineering, Pennsylvania State University  
 ME in Electrical Engineering with emphasis in power engineering, University of Idaho  
 Active member of Institute of Electrical and Electronics Engineers (IEEE) serving as program evaluator for ABET for engineering technology programs and as a reviewer and balloter for standards development.  
 State and NCPCCI certified as electrical plans reviewer and electrical inspector  
 Continuing education with NFPA on fire alarm systems (2006)  
 Current position since 1998.

- Registered professional engineer in Virginia and Ohio, 11.5 years of experience in private consulting firms, federal government, and at another university, 9.5 years code compliance review experience at the University.
- Primary responsibility is review and in-house consultation for electrical, telephone/data and fire alarm systems, editing of University Facilities Design Guidelines, value management studies, Certificates of Use and Occupancy inspections, and interdepartmental consultation.
- Assistant to Chief Review Architect for workload administration.

Senior Fire Protection Engineer: Elaine B. Gall, PE  
 B.S. in Mechanical Engineering from Virginia Tech  
 M.S. in Fire Protection Engineering from University of Maryland

Certified Building Code Official, Fire Code Official, Fire Protection Inspector, and Fire Protection Plan Reviewer based on certification tests and attendance of related State and Department of Fire Programs Training Modules. Member of the Virginia Fire Prevention Association, National Fire Prevention Association. Chair of Virginia Fire Services Board Code Committee.

- Virginia registered engineer, 23+ years professional experience, all of which includes code review and construction inspection experience, including Deputy State Fire Marshal at regional office in Roanoke, VA involved with University of Virginia projects and facilities.
- Primary responsibility is review and in-house consultation for fire suppression systems, fire alarms, construction of fire-resistance rated assemblies, fire safety, review of shop drawings for fire alarms and fire protection systems, editing of University of Virginia Facilities Design Guidelines, and interdepartmental consultation.
- Assistant to Chief Review Architect with lead role in Certificates of Use and Occupancy inspections.

Architect; Amy Eichenberger, AIA, LEED  
BS in Architecture, Virginia Tech  
Licensed in Virginia and New Mexico

- 18 years professional service in design and production with experience in commercial and institutional buildings
- LEED Certified (Leadership in Energy and Environmental Design)

Contributing to reviews for architecture and constructability.