

Cover photo graph by Dan Addison, University Communications.

Facilities Planning and Construction Annual Report 2015-2016

(July 1, 2015 – June 30, 2016)

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2015-2016 Annual Report Table of Contents

Foreword	5
Overview	7
Production	
Academic Division	9
Narratives	10
Health System Division	19
Narratives	20

Support Divisions

Contract Administration Division	
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Appendices:

А	Facilities Planning and Construction Organizational Chart	.31
В	Contract Construction by Fiscal Year from 1994-2016	.32

Facilities Planning and Construction

Foreword

Facilities Planning and Construction (FP&C) is responsible for the execution of the University's Capital Project Program. We provide management of all design and engineering services, management of all construction services, and procurement for all construction contracts and design/engineering professional services contracts for the University community. Our goals is to set the standard for excellence in higher education and healthcare project delivery.

We are here to:

- Provide leadership to support the University community in the development and implementation of projects for planning and construction.
- Assure appropriate design and construction standards and criteria established by the University, the state, or other appropriate agencies are followed.
- Identify and implement opportunities to balance quality and cost of construction, focusing on value based decision making and life cycle costs.
- Continue to develop innovative best practices for professional and construction services procurement and administration that maximize competition and diversity while assuring continued conformance to the University's restructuring requirements.
- Maintain in-house design services to support the University's various renovation programs.
- Encourage appropriate participation of all stakeholders throughout the project.

The work is accomplished by two production divisions, the Academic Division and the Health System Division. They are supported by a Contract Administration Division and an Administration Division and work in cooperation with the Office of the University Building Official, the Office of the Architect for the University, and Facilities Management.

Annette Cyphers, P.E. Director, Facilities Planning and Construction

Facilities Planning and Construction

Overview

This 2015-2016 Annual Report for the Facilities Planning and Construction Department highlights many accomplishments including:

- Completed and occupied several new major facilities. These are highlighted in the Division sections of this report and total \$205,500,361.
- Awarded 82 construction contracts totaling \$161,620,385.
- Processed 427 professional service contracts and service orders totaling \$42,136,601.
- Put in place construction with a value of \$150,200,000.
- Design and construction continues on major new facilities. These are highlighted in the Division sections of this report and total \$852,141,715. Additionally see each Division section for a summary of major projects.

Academic Division:

The Academic Division had a total workload of 21 capital projects. The HECOM threshold is \$2M for a Capital Outlay project. These active projects included:

- 7 capital projects in design for a total of \$229,885,000.
- 8 capital projects in construction for a total of \$161,660,000.
- 9 capital projects completed for a total of \$165,968,000.

Capital Projects in Design	Capital Projects in Construction	Capital Projects Completed
Baseball Stadium Expansion	1515 University Student Center	Gibbons House
Gilmer Hall and Chemistry Ren.	35 kV Electrical Ductbank	Gooch Dillard Phase II
Gooch Dillard Phase IV	Gooch Dillard Phase III	McCormick Road Tunnel
Inn at Darden Renovation	Hotel A Renovation	North Grounds Mechanical Plant
*Leake Bldg Lower Level Ren.	Material Science HVAC	Rotunda Renovations
*Library Stacks Expansion	McCormick Road Residence Hall	Skipwith Hall
Old Cabell Hall MEP Upgrades	Newcomb Road Chiller Plant	Wilson Hall Renovations
	Total Advising Center	CAW: Dam Restoration
		CAW: Library

The Academic Division also had a significant non-capital project workload.

Non-Capital Projects in Design	Non-Capital Projects in	Non-Capital Projects Completed
	Construction	
*Pavilion VII Porch Repairs	Blandy Farm Cottages	Alderman Rd Pedestrian Bridge
	Blandy Farm Greenhouse	* Brown College Bathrooms Ph III
	Clemmons Roof and Solar PV	Cemetery Expansion
	Hotel A Renovation	*Crackerbox Roof Replacement
	IRC Utility Upgrades	*Faulkner Complex Phase II
	Law School Exterior Envelope Rep.	*Head Football Coach's Office
	Pav V to Pav VII Roof & Railings	Hsu Laboratory
	Pavilion III Renovation	JPJ Exterior Repairs
	Special Collections Library	Law School Lobby Renovations
	Humidification System Upgrade	
		Physics Optics Labs HVAC Replac.
		*TJAGLCS Library Renovation

*Indicates projects designed by FP&C's Design Group

The following pages provide project details for many of these projects along with staff contact information.

Academic Division Major Commissions

1515 University Avenue Student Center

James Zehmer

The University is currently renovating 1515 University Avenue as a student center. Guided by the design of Nalls Architecture, and with construction performed by FM's Project Services Department, the project will create a student-centered space with the vibrancy of a commercial environment, offering a safe and inclusive late-night atmosphere without alcohol. The basement will house a sports lounge, with billiards, ping-pong, and other games as well as TV monitors for watching UVA sports events. The first floor, featuring a large open space with a 14-ft-high tin panel ceiling, will provide multiple seating areas in a flexible format along with a small performance stage and a café offering bistro-quality desserts. The second floor will provide meeting and rehearsal spaces of various sizes to meet the needs of student groups. This \$4.75M renovation project is expected to be ready in time for the 2017 spring semester.



Crackerbox Roof Replacement

Sarita Herman / Zach Brackett

The Crackerbox is a two-story brick building located behind the East Range. Named for its size, the Crackerbox is currently used for graduate student housing. It is believed to have been constructed as a kitchen for Hotel F around 1825, and probably also housed enslaved laborers. Most similar structures from the early years of the University have been demolished; the Crackerbox is one of three remaining structures of its kind in the Academical Village.

Documentary and physical evidence indicate that the building originally had a wood shingle roof. When the need to replace the existing metal roof was apparent, the Historic Preservation Team decided to return the roof to its original appearance.

Alaskan Yellow Cypress shingles were selected as the most weather-resistant wood shingles available. To ensure water-tightness, the shingles were installed over solid sheathing covered with an ice and water shield. Cedar breather underlayment and felt spacers allow airflow around the shingles to increase their longevity.

The FP&C Engineering and Design group is the architect of record. The roof installation was completed by W.A. Lynch Roofing Co. in January 2016, at a total cost of \$56,000.



Gilmer / Chemistry

Craig Hilten / Jim Klapmust / Charlotte Dickerson

Renovation is underway for Gilmer Hall and the Chemistry Building. Gilmer Hall was built in 1963 with a major addition in 1987, for a combined area of 221,980 square feet, providing research and teaching facilities for the Biology and Psychology Departments. The 208,392-square-foot Chemistry Building, completed in 1968, provides research and teaching laboratories and general-use classrooms. The Chemistry Addition was completed in 1995 and is not within the scope of this project, but will provide swing space.

Today these buildings house the majority of teaching in the sciences, and are workhorse facilities for the College of Arts and Sciences. Most of the classrooms and labs, little altered from their original designs, are inefficient and out of step with current teaching and interdisciplinary research practices. These issues will be exacerbated by the projected growth in student enrollment in the sciences and will hinder the College's efforts to attract students and faculty.

Architectural services are being provided by Perkins + Will of Washington DC. Construction management services are being provided by the Whiting-Turner Contracting Company of Richmond VA. The project budget is \$186.8 million. The phased construction is expected to begin in January 2017 and continue through 2021.



Leake Building Lower Level Renovations

Amy Eichenberger / Keith Payne

Facilities Management is renovating the lower level of the Leake Building to respond to the need for improved offices, group work areas, administrative support space and a new conference room.

The scope of the 12,400-square-foot renovation includes new office spaces, optimized as to lighting, heating and cooling, and size, and with new finishes, furniture and casework. Two new restrooms will be added. In addition, the two existing north entrances to the building will be relocated closer to the stairs and elevator, improving the approach to the building. These changes will also provide several large, flexible open office areas and a clear circulation path throughout.

The scope will include new mechanical and electrical systems. High-efficiency exterior glazing systems throughout the lower level will enhance operational efficiency. A new sprinkler system will improve fire safety. These improvements will optimize the existing building space to improve efficiency, flexibility and access to natural daylight.

The architect is the FM Design Group and the contractor is FM Project Services. The project is targeting LEED Silver Certification at a minimum. The project cost is \$3.42 million.



Newcomb Road Chiller Plant

Mike Vanderweide / Charlie Durrer

A new 6,000 square foot chiller plant will replace the multiple chillers and supporting equipment that currently serve the buildings along Newcomb Road. The new plant will allow this equipment to be removed from individual buildings, and create greater capacity so that several buildings not currently on this loop can be added.

The existing plant and equipment are near maximum capacity, and at the end of their life expectancy. Also, since the equipment is spread across several buildings, the current system is inefficient in terms of both energy use and maintenance. The project examined several alternative cooling options; with high efficiency chillers and a centralized plant, the new plant will provide significant efficiency improvements over the existing plant.

The project was designed by Affiliated Engineers, Inc. of Chapel Hill N.C. Sauer Inc. of Newport News VA is the construction manager. Construction began in the fall of 2014. The project was substantially complete by early summer of 2016 and is planned for final completion in November of 2016. The total project budget is \$14.8 million.



Rotunda Renovations

Jody Lahendro / Steve Ratliff

After 28 months, the Rotunda reopened to the public on September 26. The first phase of work, from May 2012 to August 2013, involved replacing the dome roofing and repairing the main drum's exterior. The recently completed phase included extensive work to the interior, exterior and landscaping.

All mechanical and electrical systems were replaced and new audio/visual and communications systems were added. The enlarged building elevator will allow unrestricted public access from the central stair. To reconnect students with the Rotunda, permanent classrooms and new study spaces have been added.

Exterior work included replacement of the marble capitals, and repair, cleaning or replacement of marble, brick, copper and plaster elements all around the building. The east and west courtyards and the north terrace were redesigned and replaced.

The Rotunda is the centerpiece and symbol of the University of Virginia, and is internationally recognized as a National Historic Landmark. The Rotunda, Academical Village, and Monticello together are designated as a World Heritage Site.

John G. Waite Associates, Albany NY, was architect for the project, and Whiting-Turner, Richmond VA, was the construction manager. Construction began in May 2014 and was completed in August 2016. The project budget for this second phase of work was \$53 million.



Skipwith Hall

Amy Eichenberger / Keith Payne

Skipwith Hall, two stories high and 14,353 square feet, is located west of the Leake Building. The building offers a variety of spaces for Facilities Management staff including open office areas, enclosed offices, conference rooms and two kitchenettes.

The design provides maximum flexibility and a variety of sustainable features including use of natural light, highly efficient green roofs, mechanical systems and glazing, photovoltaic panels, LED lighting, and permeable paving systems at adjacent driveways and patios. In addition, the open office areas provide a variety of workspace and collaborative meeting areas for staff and visitors.

The building was fully occupied in March 2016. Several obsolete buildings in the FM yard were demolished for the new construction, and completion of the new building has allowed for the removal of modular units in the FM north yard, providing additional parking spaces and increased pervious area for improved stormwater management.

The architect is Bowie Gridley Architects of Washington DC, and the contractor is Crenshaw Construction of Charlottesville VA.

The building is expected to receive LEED Gold Certification. Total project cost was \$6 million.





College at Wise: New Library Dave Paley / John Carter

The University of Virginia's College at Wise has constructed a new state-of-the-art library for the College's students and faculty. The centrally located library is destined to be the identifying, iconic building on the campus. Six stories high and 69,000 square feet in area, the brick and glass structure is the new heart of the College, and provides a fully accessible 24-hour link between the upper and lower campuses.

The building houses the College's collections and provides ample space for collaborative study, instruction, and multimedia resources to accommodate the College's present and future needs. Lobbies on multiple floors will be open late, and will feature café tables, group study rooms and informal lounge seating so that students can collaborate on projects, study, socialize, and gather informally throughout the day and evening. The café will further enhance the library's role as the center of campus life.

The architect was CannonDesign of Arlington VA and the Construction Manager was Quesenberry's of Big Stone Gap VA. The project was completed in July 2016 at a total cost of \$37.17 million.



Health System:

The Health System Division responded to 34 new requests for services, contributing to a total workload of \$708,356,957 active projects, including projects that have reached Construction Completion in the last year. Using the HECOM threshold of \$2,000,000 for a Capital Outlay project, these active projects included:

- 45 projects in startup / request phase, budget / scope not yet developed.
- 76 small non-capital projects with an average size of \$136,006 for a total of \$10,336,456.
- 27 large non-capital projects with an average size of \$952,233 for a total of \$25,710,291.
- 9 small capital projects with an average size of \$ 3,181,912 for a total of \$12,600,000.
- 12 large capital projects with an average size of \$22,264,413 for a total of \$102,693,080.
- 1 very large capital project of \$376,500,000.
- 5 capital projects in design for a total of \$397,311,073.
- 4 capital projects in construction for a total of \$63,285,642.
- 4 capital projects completed for a total of \$39,532,361.

Capital Projects In Design	Capital Projects In Construction	Capital Projects Completed
Outpatient Procedure Center	500 Ray C. Hunt Renovation	Ivy Translational Research Building –
Renovation		560 Ray C. Hunt Drive
University Hospital East Cafeteria	Education Resource Center	MRI Relocation – Enabling Project
Renovation		for ED Tower Project
University Hospital Expansion	University Hospital 7 th and 8 th Floors	Primary Care Center 4 th Floor –
	Renovation	Neurology Clinic
University Hospital Emergency	University Hospital HVAC	University Hospital HVAC
Power Phase III	Replacement Phase III	Replacement Phase II
University Hospital HVAC		
Replacement Phase IV		

Health System Major Commissions

500 Ray C. Hunt Drive Renovation

The 500 Ray C. Hunt Drive Renovation is a 62,000 square foot office building located in Fontaine Research Park that was purchased from the University Physician's Group. It is being converted into an ambulatory health care facility for cardiology diagnostics, cardiology clinics, cardiology rehabilitation, and the pelvic surgery and urology clinics.

The building is over 25 years old. The renovation replaces all of the building infrastructure components including the mechanical, electrical, plumbing, and fire alarm systems. The third floor of the building is being renovated for the urology and pelvic surgery clinics which are moving from the West Complex and Northridge. The second floor is being renovated for a cardiology clinic which is being created by moving and consolidating clinics from Northridge, Primary Care Center and University Hospital Second Floor West (UH2W). The first floor will house the cardiology diagnostic functions which are moving from UH2W. The lower level will house the cardiology fitness and wellness clinic, which is moving from Northridge.

The architect is Hammel, Green and Abrahamson of Alexandria, VA. The construction manager is Gilbane Building Company of Richmond, VA. Construction is scheduled to be complete in the third quarter of 2017. The project budget is \$19.2 million.



Education Resource Center

The Education Resource Center project provides approximately 45,200 gross square feet for Graduate Medical and patient education, a relocated Outpatient Pharmacy, and a new centrally-located Outpatient Imaging Center. These functions are directly responsive to the Health System's stated mission to provide excellence and innovation in the care of patients, the training of health professionals and the creation and sharing of health knowledge.

It provides new conferencing space for resident and patient education and much needed dedicated resident workspace. The project site is adjacent to the Emily Couric Clinical Cancer Center (ECCCC) and the new elevator and stair tower for the Lee Street Garage, providing convenient access to the Pharmacy for patients and staff leaving the Medical Center via the 11th Street or Lee Street garages, and it is adjacent to the main Hospital bus stops. In addition, this project provides space for a new Outpatient Imaging Center (OIC) that significantly improves patient access and fulfills the need for diagnostic imaging services convenient to the Cancer Center and the Battle Building at UVA Children's Hospital. This OIC, located in the lower level, will connect directly with the ECCCC radiation oncology area.

The architect is CO Architects of Los Angeles, CA. The construction manager is Donley's/McCarthy of Collinsville, IL. The project is scheduled for completion in the first quarter of 2017. The project budget is \$30.05 million.



Outpatient Procedure Center Renovation

The Outpatient Procedure Center will be created in the building formerly known as the Outpatient Surgery Center, which has relocated its surgical and procedure services to the first floor of the Battle Building at UVA Children's Hospital. This allows space for several outpatient procedure suites to be relocated from the in-patient University Hospital. The total building area is 32,000 square feet (sf). The existing first floor totals 25,000 sf consisting of procedure rooms, patient preparation and recovery bays, and ancillary support areas. The second floor includes 7,000 sf of administrative space.

This project completely renovates the first floor to provide a five-room Endoscopy suite with decontamination and sterilization, a one-room Motility suite, a 20-bed preparation and recovery unit, new waiting and registration areas, and staff ancillary space. All of the building's infrastructure systems will be replaced or upgraded. The second floor administrative offices will remain occupied and functional throughout the renovation with no architectural modifications.

The architect is Hord Coplan Macht of Alexandria, VA. The construction manager is Whiting-Turner of Richmond, VA. Construction is scheduled to be complete in the third quarter of 2017. The project budget is \$11.5 million.



University Hospital 7th and 8th Floors Renovation

The University Hospital 7th and 8th Floors Renovations project involves renovations to the on Levels 7 and 8 of the University Hospital, including the Children's Hospital on the seventh floor (approximately 37,500 square feet (sf)) and Women's Health on the eighth floor (approximately 23,100 sf).

Areas being renovated on the seventh floor include the pediatric intensive care unit (PICU) patient rooms, including new family-centric amenities within the PICU unit, renovated / refurbished pediatric acute unit patient rooms including the addition of new ADA-compliant rooms, finish upgrades in support spaces, revamped Children's education spaces, a new four bed pediatric bone marrow transplant unit with support spaces, new team nurse stations, and new flooring and paint on all public corridors.

Areas being renovated on the eighth floor include converting women's patient rooms to be solely private, a new (replacement) continuing care nursery, a relocated, expanded, and modernized triage area, refurbished and upgraded labor and deliver rooms including an ADA room, new team nurse stations, and finish upgrades in support spaces.

Also included are general mechanical, electrical, and plumbing infrastructure improvements throughout both floors.

The architect is HKS Architects of Richmond, VA. The construction manager is DPR Construction of Richmond, VA. Construction is scheduled to be complete in the fourth quarter of 2018. The project budget is \$15,800,000.



University Hospital Emergency Power Phase 3

Phase III of the University Hospital Emergency Power (EP) project is designed to increase the emergency power capacity for the existing Hospital and the University Hospital Expansion (UHE), as well as increase the emergency power redundant capacity for the existing Hospital. New primary and secondary feeders will be installed from the generator room located in the Lee Street Garage to the Hospital and UHE. Two additional 1500kw generators will be added to the existing 5-1500kW units to provide 10,500kW of emergency power to the expanded Hospital. The new generators will be located in the generator farm between the Lee Street Garage and the 11th Street Garage. Power distribution inside the Hospital will be revised to improve redundancy, increase safety, and establish the necessary infrastructure for future emergency power demand.

The Hospital's existing primary emergency power feed is supplied through a 5,000amp feeder, with a 3,750amp redundant backup feeder. EP Phase 3, in concert with UHE, will reroute the existing Hospital primary feeder, install a new primary feed for UHE, and install secondary feeders for both that will increase the redundant feed capacity and redundant generator capacity for the entire system.

The engineer is Leach Wallace Associates of Elkridge, MD. The general contractor for the early site utilities package was Martin Horn, inc. of Charlottesville, VA. The remaining work is scheduled to go out to bid in the third quarter of 2016. The project is scheduled for completion in the first quarter of 2018. The project budget is \$5,065,500.



University Hospital Expansion

The University Hospital Expansion (UHE) project consists of an 11-story addition to the site east of the existing Hospital. The building expansion includes a four-story base with a six-story tower and roof penthouse for a total of 11 stories. The new building will consist of an expanded Emergency Department (ED) on the first floor, an expanded Interventional Program on the second floor, a six-story patient bed tower with three floors fitted out, expansion of ancillary support spaces on the lower level, an additional roof helipad, and renovations of the existing Hospital on Levels 0 through 2.

The work will also encompass new drop off and entries into the ED for ambulances and ambulatory patients. The expanded ED will consist of 77 examination rooms and three resuscitation rooms. The Interventional Program floor will add four new operating rooms. The Patient Bed Tower will consist of three floors of 28 Intensive Care Unit rooms per floor on Levels 3 through 5 and three shelled floors on Levels 6 through 8.

The architect is Perkins + Will of Washington, DC. The construction manager is Skanska USA Building of Durham, NC. The project is scheduled for completion in the third quarter of 2020. The project budget is \$376.5 million.



University Hospital MRI Relocation for the University Hospital Expansion

The Magnetic Resonance Imaging (MRI) Relocation was a critical enabling project, allowing for relocation of the Hospital's MRIs off of the University Expansion's site footprint. The project was built in two phases with the first phase installing a one story modular building connected to the existing hospital. Also in this phase was significant interior work to open space in the first floor of the Hospital to accommodate a new MRI suite. The modular building houses a new reading room for the Interventional Radiology staff, a reception and waiting area, and a link to the temporary mobile MRI. Exterior work includes site work for the modular, new walkways and a new dock for the mobile MRI trailer. Work interior to the Hospital included multiple relocations within Interventional Radiology, including a new angiography room, two peripherally inserted central catheter (PICC) Rooms, re-designed high efficiency storage and office relocations.

The second phase was the construction of the new MRI suite, and included the installation of three new MRIs in the spaces in the hospital created by the first phase enabling the work. The new suite provides for improved magnetic safety measures and updated MRI technology.

Once these new MRI locations were constructed, the old MRI pavilion was torn down to make way for the expansion of the Hospital.

The architect was Perkins + Will of Washington, D.C. The construction manager for phase one was Crenshaw Construction, Inc. of Culpeper, VA, and for phase two was Skanska USA of Raleigh, NC. Occupancy for Phase 1 was achieved in the January 2016; occupancy for Phase 2 was achieved in May of 2016. The project cost was \$15.1 million.





University Hospital HVAC Replacement Phase II/III/IV

The HVAC Replacement projects represent a phased approach to replacement of air handling units (AHUs) and ancillary HVAC systems nearing the end of their projected lifespans in the main Hospital. During Phase 1 the Hospital evaluated AHUs, exhaust fans and hydronic systems for criticality, condition and age and developed a program for replacements/upgrades as follows:

	Project Scope	Completion Date
Phase I (\$6.4M)	Replacement of 6 AHUs	Winter 2013
	Replacement of 6 AHUs	Summer 2015
Phase II (\$12.8M)	Provisions for Standby AHU systems	
	Glycol System upgrades	
	Replacement of 7 AHUs	Winter 2016
Phase III (\$8.0101)	Chilled Water System upgrades	
	Replacement of 6 AHUs	Spring 2018
Phase IV (\$10.2101)	Continued Chilled Water System upgrades	
Phase V (\$8M)	Replacement of up to 9 AHUs	TBD

In addition to developing a proactive replacement program for aging HVAC Systems, this project has organizational goals including developing a process for early integration of all team members (including the CM firm, maintenance/operations staff, commissioning agents, etc.) in the beginning stages of the design process and continuing this collaboration beyond beneficial occupancy. To meet this goal, the construction manager, Donley's/McCarthy; the engineer, Leach Wallace; the commissioning agent, Burns and McDonnell; and the testing and balancing firm, Mechanical Balancing, were contracted at the start of design and worked together with key maintenance representatives and the project team to develop the program and logistics that allowed for the most efficient execution of the work in an active hospital environment. This integrative approach has served to establish multiple University protocols for improved construction and operational processes.

AHU's are being provided by Air Enterprises, a company that specializes in site-build construction. The units are being shipped and delivered into the hospital in parts on pallets, and are then constructed, tested, and commissioned on-site under the supervision of specialized on-site technicians. Phase IV design is complete and the team is preparing to procure a CM partner for construction by the fourth quarter of 2016.



Contract Administration

The Office of Contract Administration managed the procurement processes for and made awards on a total of 509 contracts in the 2015-2016 fiscal year (FY16) compared to 419 the previous year. The dollar value of both the construction and professional services contracts increased significantly.

Professional services contracts (architectural, engineering, and consulting) and service orders on consulting term contracts numbered 427 for a total of \$42,136,601 compared to 343 contracts the previous year totaling \$23,274,195. There were 46 change orders processed with a net additive value of \$5,178,649.

There were additionally 82 construction procurements for a total of \$161,620,385 compared to 76 procurements the previous year totaling \$101,580,548. There were 158 associated construction change orders processed with an additive net value of \$12,110,587 compared to 105 change orders the previous year totaling \$5,495,943. There were only two change orders over \$500,000. Both were for the planned charges for University Hospital HVAC Replacement Phase III – Change Order # 7 valued at \$892,958.45 and #8 valued at \$615,588.84.

During the year the office issued a total of 16 requests for proposals (RFPs) compared to 14 RFPs the previous year. The number of professional services RFPs executed this year was 9 and construction RFPs totaled 7.

We continue to team with Procurement & Supplier Diversity Services to strategize and plan for increased diversity in Prime and Subcontractor spending through recruitment of small, women-owned, and minority-owned (SWaM) firms. On August 29, 2016, members of our office participated in a Near Term Projects Outreach Event primarily for SWaM firms. We also participated in Skanska Hospital Expansion Outreach meetings on December 16, 2015 and August 10, 2016. In addition the following SWaM initiatives continued in FY16:

1) An emphasis on SWaM participation in Facilities Management's procurements continues with an overall aspirational goal of 45% for SWaM spending for the University's 207 and 209 agencies. Special efforts are made for women-owned and minority-owned firms to improve their representation in the overall total spending.

2) Our Office Manager continues to take the lead in promoting SWaM participation in our procurements and had numerous meetings with SWaM firms.

3) Members of the Office of Contract Administration attended SWaMFest XI at Virginia Beach in October 2015. Members also participated in various SWaM outreach meetings and provide project specific advocacy.

Facilities Management's new e-Builder Enterprise web-based construction management software implementation continues. This project is a significant ongoing effort involving staff throughout Facilities Management. Discussions with e-Builder related staff are continuing to customize the software for Facilities Management's specific needs and process, and to modify our HECOM, Division 1, and contract documents accordingly.

The Office continues to update both the new public and existing Contract Administration web sites. Existing web pages and templates including the UVA HECO/CO/DGS Forms page continue to be updated.

As part of ongoing improvements to the capital project execution process, we have Implemented Building Information Modeling (BIM) as a design collaboration tool with key Subcontractors early in the design process as part of a Design-Assist methodology. The new University Hospital Expansion Project is being executed with BIM, Design-Assist, and Colocation of major stakeholders contributing to the design. The Gilmer/Chemistry Renovation and McCormick Road Housing Renovation Projects are also using BIM and Design-Assist.

The Office consistently promotes and encourages professional involvement, certification, and training. Members of the Office and FP&C attend the Virginia COAA semi-annual workshops. In addition the Office Director served as the COAA Virginia Chapter Treasurer again this past year and UVA hosted the September 2015 Virginia COAA workshop which attracted approximately 90 facility owners, contractors, and A/E's from Virginia and beyond. The workshop included sessions on a Net Zero School, 3D Laser Scanning, BIM, and a tour of the Rotunda. The Director also attended the DEB Capital Outlay and Facility Management Forum in May 2016.

Contract Administration staff also participated in FP&C training sessions that were held for staff and participated in numerous other training opportunities. Our Office Manager attended the DGS Agency Procurement Surplus Property Review Class in February 2015 and the DGS Public Procurement Forum in November 2015. The Office Director and Contract Administrator for Academic Construction also attended the VASCUPP Strategic Procurement Institute July 20-21, 2015. Our Records and Office Coordinator acquired her State PCard from Procurement & Supplier Diversity Services in May 2015 and she earned her Essential Work Skills certificate from UVA Human Resources in March 2016.

Appendix A



Facilities Planning and Construction July 1, 2015 - June 30, 2016

Appendix B

Facilities construction completed during the year represented a contract construction work in place volume of \$150.2 million.





Neilson's view of the Rotunda with Pavilions IX and X, Special Collections, University of Virginia Library

We are about to establish a College near Charlottesville on the lands formerly Col. Monroe's, a mile above the town. we do not propose to erect a single grand building, but to form a square of perhaps 200 yards, and to arrange around that pavilions of about 24. by 36. f. [feet] one for every professorship & his school. they are to be of various forms, models of chaste architecture, as examples for the school of architecture to be formed on. we shall build one only in the latter end of this year, and go on with the others year after year,..."

> Thomas Jefferson Letter to John Dinsmore April 13, 1817