

Capital Outlay Plan for 2014-2020

JOINT FINANCE AND AUDIT COMMITTEE AND BUILDINGS AND GROUNDS COMMITTEE

June 30, 2013

At its March 2013 meeting, the Board of Visitors considered a recommendation that a list of potential projects for inclusion in the 2014-2020 Capital Outlay Plan (Plan) be approved and that the university be authorized to develop and submit a final plan to the state, in accordance with future guidance from the state and based on the projects in the approved list. The recommendation was approved, and the university has proceeded accordingly.

On May 21, 2013, the state issued instructions for the preparation and submission of the 2014-2020 Capital Outlay Plan. The deadline for submission of the Six-Year Plan to the state was June 21, 2013. In accordance with the state's traditional requirement of prioritizing projects for General Fund support over a six-year period, the university prepared and submitted the Plan in the customary three biennia arrangement. Attachment A shows the full list of projects including those with General Fund support and those funded entirely with nongeneral fund resources. The biennia show separate lists for the University Division and the Cooperative Extension-Agricultural Experiment Station Division. A brief narrative description of each project is shown on Attachment B.

The projects in the first biennium may be used by the state to update its capital outlay plan and to make funding decisions in the 2014 General Assembly. The projects in the second and third biennia are for planning purposes only. This project arrangement reflects the needs of the university and positions the university with options to respond to various funding abilities of the state in the future. The projects are in priority order, and the cost estimates reflect escalation to a midpoint of construction based on the biennium.

The state capital program includes phased review, approval, and appropriation procedures under which a project requesting General Fund resources may be reviewed and approved up to three times: pre-planning, detail planning, and full funding. Thus, a project may remain on the state capital outlay plan for two or three funding cycles until it reaches the full funding phase. For technical reasons, the state capital budget process includes an instruction to continue submitting information for projects that have previously been approved by the Board of Visitors, submitted, and approved for some level of planning by the Commonwealth, but are not yet fully funded. Virginia Tech has four projects that meet this condition: Classroom Building equipment funding, Academic Building Renovations construction and equipment funding, Improve Kentland Facilities construction and equipment funding, and Sciences Laboratory Building planning, construction, and equipment funding. The university provided the necessary information in accordance with the state's instructions to ensure the projects continue to move through the capital outlay process. The university does not continue listing a General Fund project item on its plan once a project is approved by the state for planning.

The plan includes projects with 100 percent nongeneral fund support and these are located at the lower priority levels of each biennium because they do not compete for General Fund resources. These projects may be approved by the Board of Visitors under the

restructuring management agreements on an as needed basis and as funding is sufficient. The university will bring forward a resolution for each item with 100 percent nongeneral fund support on a project-by-project basis. In accordance with the usual state instructions, these projects are not included in the submission to the state.

Projects with nongeneral fund support, including portions of gift campaigns, may be financed with debt. Each potential debt financing under goes a financial feasibility assessment to ensure resources are sufficient to cover the full debt service term without unnecessary financial risk to unit operations. The positioning of debt is further analyzed to ensure the university does not exceed the parameters of the university debt policy which sets a maximum limit of a 7 percent ratio of total annual debt service to total operating expenses. While the policy sets a maximum ratio of 7 percent, university management, in accordance with direction from the Board of Visitors, manages debt levels to ratios below 5 percent as a conservative measure to ensure resource strength is focused on the strategic operations of the institution. The debt ratio for the year ending June 30, 2012 is three and two-thirds percent. For the forward looking six-year period, the projected debt ratio, including implementation of high priority debt issuance items on the capital list, is expected to remain below 5 percent.

Beyond the submission of the Plan to the state, the expected capital process for the 2014 budget session includes at least five major phases:

- 1) over the summer of 2013, a state appointed Advisory Committee (staffed by several central agencies and offices) will review the university's 2014-2020 Plan with potential follow up by the university;
- 2) by November 1, 2013, the Advisory Committee will provide a set of recommendations to update the state's current Plan for the 2014-2020 period to the Governor and Chairmen of the Money Committees;
- 3) on December 16, 2013, the Governor is scheduled to present to the General Assembly a bill proposing amendments to the current capital outlay plan and a budget bill including planning funds or full funding for high priority items in the plan;
- 4) during the 2014 General Assembly, the legislature may amend the proposed plan and proposed funding items in the Executive Budget Bill; and,
- 5) July 1, 2014, the updated 2014-2020 plan and any funded items will be effective.

Recommendation:

That the Six-Year Capital Outlay Plan for the period 2014 through 2020 as submitted to the state be ratified.

September 9, 2013

Attachment A

Capital Outlay Plan for 2014-2020

JOINT FINANCE AND AUDIT COMMITTEE
AND BUILDINGS AND GROUNDS COMMITTEE

June 30, 2013

FIRST BIENNIUM -- 2014-2016

Proposed Priority Level	UNIVERSITY DIVISION	Budget by Revenue Source		
		Dollars in Millions		
		Costs Projected to 2017		
		General Funds	Nongeneral Funds	Total
1	Undergraduate Science Laboratory Building	\$ 66.0		\$ 66.0
2	Central Chiller Plant, Phase II	39.0	\$ 5.3	44.3
3	Holden Hall Renovation and Expansion	68.0	7.6	75.6
4	Translational Research and Medicine Laboratory	36.6	18.4	55.0
5	Corps Leadership and Military Science Building	40.1	5.0	45.1
6	Renovate Derring Hall, Phase I	55.8		55.8
7	Renovate Library	89.3		89.3
8	Randolph Hall Renovation and Expansion	155.5	17.3	172.8
9	Robeson Hall Renovation and Expansion	48.6	12.2	60.8
10	VTCRI Vivarium and Research Addition	22.0	22.0	44.0
11	New College of Business Building	90.4		90.4
12	Renew Burruss Hall Infrastructure	75.2		75.2
13	Health and Safety Improvements	15.1		15.1
14	Renovate Southgate Center	10.3		10.3
15	Campus Road Package, Phase I	44.0		44.0
16	Virginia Bioinformatics Institute, Phase III (construction)		40.6	40.6
17	Upper Quad Residential Facilities (construction)		84.2	84.2
18	Health Center Improvements		2.5	2.5
19	South Recreation Field Replacement		4.6	4.6
20	Airport "Hokie Bird" Hangar		4.9	4.9
	TOTAL UNIVERSITY DIVISION	855.9	224.6	1,080.5
	COOPERATIVE EXTENSION/AGRICULTURAL EXPERIMENT STATION DIVISION (229)			
1	Animal Production and Livestock Facilities	49.1		49.1
	TOTAL CE/AES PROJECTS	49.1	-	49.1
	TOTAL OF 2014-2016 BIENNIUM	\$ 905.0	\$ 224.6	\$ 1,129.6

Presentation Date: September 9, 2013

Attachment A

SECOND BIENNIUM -- 2016-2018

June 30, 2013

Priority Level	UNIVERSITY DIVISION	Budget by Revenue Source		
		Dollars in Millions		
		Costs Projected to 2019		
		General Funds	Nongeneral Funds	Total
1	Library Storage Addition	\$ 6.8		\$ 6.8
2	Sustainable Materials Building	39.7	\$ 13.2	52.9
3	Electrical and Computer Engineering Building	98.9	24.8	123.7
4	Renovate Norris Hall	32.7	4.6	37.3
5	Replace Femoyer Hall	30.1		30.1
6	Comparative Medicine Research Facility	7.0	7.0	14.0
7	Institute for Critical Technology and Applied Science, Phase III	14.1	14.1	28.2
8	VTCRI Health Sciences Offices and Research Laboratory	5.1	5.1	10.2
9	Renovate Hillcrest Hall	15.5		15.5
10	Renovate Wallace Hall	4.9		4.9
11	Replace Food Science and Technology Building	38.0	6.7	44.7
12	International Affairs Building	11.5		11.5
13	Renovate Price Hall	30.7		30.7
14	Data Center	27.7	9.3	37.0
15	Manufacturing Prototype and Demonstration Facility	12.3	4.2	16.5
16	Power Plant/Substation	32.1	21.5	53.6
17	Campus Road Package, Phase II	16.2		16.2
18	War Memorial Hall Renovation of Recreation Spaces		62.6	62.6
19	New Student Center		124.1	124.1
20	Graduate Student Center Housing		5.4	5.4
21	Rector Field House Renovation		5.6	5.6
22	Baseball Press Box and Restrooms Improvements		3.0	3.0
23	Tennis Stadium Renovation		3.2	3.2
	TOTAL UNIVERSITY DIVISION	423.3	314.4	737.7
	COOPERATIVE EXTENSION/AGRICULTURAL EXPERIMENT STATION DIVISION (229)			
1	Human and Agricultural Biosciences Building, Phase II	85.6	-	85.6
	TOTAL CE/AES PROJECTS	85.6	-	85.6
	TOTAL OF 2016-2018 BIENNIUM	<u>\$ 508.9</u>	<u>\$ 314.4</u>	<u>\$ 823.3</u>

Attachment A

THIRD BIENNIUM -- 2018-2020

June 30, 2013

Priority Level	UNIVERSITY DIVISION	Budget by Revenue Source		
		Dollars in Millions		
		Costs Projected to 2021		
		General Funds	Nongeneral Funds	Total
1	Replace Center for Molecular Medicine and Infectious Disease	\$ 12.0	\$ 12.0	\$ 24.0
2	Patton Hall Renovation	22.5	7.4	29.9
3	Hutcheson /Smyth Halls Renovation	59.1		59.1
4	Bishop-Favrao Hall Expansion	35.0	5.0	40.0
5	New Natural Resources Building	69.4	12.2	81.6
6	VTTI Research Building IV	4.8	4.8	9.6
7	Squires Conversion to Academics	128.1		128.1
8	Falls Church Facility Expansion	8.4		8.4
9	Pamplin Hall Renovation	38.9		38.9
10	Kentland Facilities Improvements: Historic Renovations	8.0		8.0
11	Sterrett Facility Renovation	11.0		11.0
12	Lane Hall Rehabilitation	11.8		11.8
13	VBI Data Center Expansion		6.6	6.6
14	Academic Music Building		16.7	16.7
15	Olivio Ferrari Pavilion		5.3	5.3
16	Owens Hall Renovation		10.6	10.6
17	Pritchard Hall Renovation		107.0	107.0
18	New Recreation Facilities		48.1	48.1
19	G. Burke Johnston Renovation		10.2	10.2
20	Inn at Virginia Tech, Phase II		22.2	22.2
	TOTAL UNIVERSITY DIVISION	409.0	268.1	677.1
	COOPERATIVE EXTENSION/AGRICULTURAL EXPERIMENT STATION DIVISION (229)			
1	Middleburg Equine Arena		2.5	2.5
	TOTAL CE/AES PROJECTS	-	2.5	2.5
	TOTAL OF 2018-2020 BIENNIUM	<u>\$ 409.0</u>	<u>\$ 270.6</u>	<u>\$ 679.6</u>
	TOTAL 2014-2020 CAPITAL OUTLAY PLAN	<u>\$ 1,822.9</u>	<u>\$ 809.6</u>	<u>2,632.5</u>

Presentation Date: September 9, 2013

Attachment B**Project Descriptions for the 2014-2020 Capital Outlay Plan****JOINT FINANCE AND AUDIT COMMITTEE
AND BUILDINGS AND GROUNDS COMMITTEE****June 30, 2013****First Biennium Projects: 2014-2016****University Division****1. Undergraduate Science Laboratory Building**

This project has been on the university's plan since 2007 and is included as a high priority to increase the quantity of high quality general assignment instructional laboratories to address the significant growth in life sciences and other laboratory instruction. This project envisions a new facility of 77,000 gross square feet.

2. Chiller Plant, Phase II

This project is the second phase of a strategic plan to establish a campus centralized cooling system. The Phase I project has been approved by the state, and the new plant is under construction on the southwest area of campus. This project will replace outdated equipment in the existing central plant on the north side of campus, and install distribution piping to connect the major plant systems and create a centralized campus cooling system.

3. Holden Hall Renovation and Expansion

Holden Hall was constructed in 1940 with no major renovations or building improvements since going into service. This project proposes to fully renovate the existing 42,000 gross square foot building and construct a 59,240 gross square foot addition to support the Mining and Minerals Engineering program, the Materials Science and Engineering program, and other engineering programs.

4. Translational Research and Medicine Laboratory

The Translational Research and Medicine Laboratory project envisions a 90,000 gross square foot scientific laboratory facility to support the expansion of basic and applied research in the biological and life sciences. This project is a joint effort of the College of Agriculture and Life Sciences, College of Science, and College of Veterinary Medicine.

5. Corps Leadership and Military Science Building

This project has been on the university's plan since 1993, formerly titled Lane Hall Renovation/Addition. The Corps Leadership and Military Science Building envisions a 60,530 gross

square foot building that will provide new permanent space for Corps of Cadets and ROTC programs.

6. Derring Hall Renovation, Phase I

Derring Hall was constructed in 1969 with no major improvements or renovations since the original construction was completed. This request is to renovate and modernize about 118,130 gross square feet of the 208,000 total gross square foot building.

7. Library Renovations

Newman Library was constructed in 1955, with an addition in 1980, and serves as the central materials storage facility for the entire university. This project request is for the reorganization and modernization of the 226,000 gross square foot library to provide a high quality library environment with up-to-date interactive learning formats.

8. Randolph Hall Renovation and Expansion

Randolph Hall was constructed in 1952 with an addition in 1959, and no major renovations since the construction was completed. The project includes renovating the entire 166,000 gross square foot existing building and constructing a 40,000 gross square foot addition that will renew the entire facility to support modern engineering programs and instructional space.

9. Robeson Hall Renovation and Expansion

Robeson Hall was constructed in 1960 and there have been no major improvements or renovations since the original construction. The project includes renovating the entire 66,100 gross square foot existing building and constructing a 44,400 gross square foot addition to provide modern laboratories and support space to meet the needs for instructional and research laboratory space for the physics programs.

10. VTCRI Vivarium and Research Addition

This project is to construct a four-story, 45,500 gross square foot addition to the existing Virginia Tech Carilion Research Institute building in Roanoke, VA. The addition will provide critical vivarium and laboratory space to continue the growth of the research program.

11. New College of Business Building

The envisioned project is for a 120,000 gross square foot building that would modernize the classroom, laboratory, and faculty office space to house the entire College of Business.

12. Burruss Hall Infrastructure Renewal

Burruss Hall was built in 1936. There have been two additions to the building (the west wing in 1968 and the east wing in 1970) and only one renovation to convert a portion the north elevation to academic use in 2007. The mechanical, electrical, plumbing, and envelop systems are deteriorated and failing. This project proposes to replace the systems and

renovate the remaining 120,000 gross square foot un-renovated portion of the 158,000 gross square foot building.

13. Health and Safety Improvements

The university's health, safety, and accessibility initiative for the campus is an ongoing effort, and the university includes a request for this program in each capital plan. This project is to continue progress on needed campus improvements including accessibility improvements, fire alarm systems, and updating needs assessments that are beyond the scope of the Maintenance Reserve program.

14. Renovate Southgate Center

This project will make renovations to portions of the building to house the Police Department, the Emergency Management department, and swing space for programs dislocated during renovation projects. The renovations will include approximately 38,100 gross square feet of space and will reconfigure the interior partitioning and associated mechanical, electrical, plumbing, and telecommunications upgrades to accommodate reconfigured spaces and open plan layouts.

15. Campus Road Package, Phase I

This project is the first of two campus road projects envisioned to support the future build out of the campus master plan. This first phase will provide an access road to the Visitors Center and a perimeter road on the western side of campus.

16. Virginia Bioinformatics Institute, Phase III (construction)

The project includes 51,000 gross square feet of additional private and open office space for faculty, researchers, research associates, and support personnel for the Virginia Bioinformatics Institute. The project design is complete with a construction request pending the outcome of external funding.

17. Upper Quad Residential Facilities (construction)

This project is to replace the four outdated and deteriorated Upper Quad residential facilities with two modern residence halls. A \$5.85 million planning authorization is underway and this item reflects the balance of the budget needed to complete the project.

18. Health Center Improvements

This project envisions a 3,000 square foot addition to address increasing student service demands. The addition would provide additional interview rooms, exam rooms, open clinic space, and expanded clinic support and storage space.

19. South Recreation Field Replacement

This project includes installation of artificial turf within an approximately one acre plot outside the limits of the airport runway expansion. The artificial turf fields would accommodate six multi-purpose fields for soccer and flag football which can be converted

into four softball fields. It would also relocate fourteen light poles to provide lighting for the playing fields.

20. Airport “Hokie Bird” Hangar

This project envisions an approximately 12,500 gross square foot hangar for two planes with office space for the pilots and reception area on a prepared site at the Airport. The design and site would allow for future expansion of the hangar to hold four planes.

Cooperative Extension/Agricultural Experiment Station Division

1. Animal Production and Livestock Facilities

This project includes relocating the existing College of Agriculture and Life Sciences swine offspring production and research program to another university agricultural location in the vicinity of the Blacksburg campus. The project envisions 196,300 gross square feet of new facilities including a gestation house for 130 sows, a farrowing house, a finishing and nursery house for 300 pigs, and support facilities for personnel.

Second Biennium: 2016-2018

University Division

1. Library Storage Addition

The project envisions the construction of a 6,000 gross square foot addition to the high-density storage facility near Airport Road to accommodate shifting approximately 400,000 volumes out of the main campus library.

2. Sustainable Materials Building

This project envisions a new facility of 92,300 gross square feet for science classrooms, laboratories, laboratory support services, and office space for faculty in the Wood Science and Forest Products department. The anticipated site is near the existing Brooks Forest Products Center.

3. Electrical and Computer Engineering Building

This project envisions a 175,000 gross square foot building with classroom, laboratory, and academic office space to house the College of Engineering’s Electrical Engineering and Computer Engineering departments.

4. Renovate Norris Hall

Norris Hall was constructed in two phases: the west wing in 1960 and the east wing in 1962. This project proposes to fully renovate major areas of the 68,000 gross square foot building to support engineering programs.

5. Replace Femoyer Hall

The building was constructed in 1949 as a dormitory, with no major building improvements or renovations since it was originally constructed, and it now houses academic programs. This project proposes to raze and replace the 36,000 gross square foot building with a new academic building.

6. Comparative Medicine Research

This project is to relocate the existing College of Veterinary Medicine (CVM) swine research program at the Prices Fork Road location to new facilities adjacent to the existing CVM complex. The new facilities will include 15,000 gross square feet of laboratory space.

7. Institute for Critical Technology and Applied Science, Phase III

This project is to complete the originally envisioned total facilities for the institute with a three-story, 30,000 gross square foot addition to the Phase II building. The project will include specialized research laboratories supporting research in several multi-disciplinary areas including bioengineering, biomaterials, bio-nanotechnology and sensor technology.

8. VTCRI Health Sciences Offices and Research Laboratory

This project will construct a 30,000 gross square foot facility that will house state-of-the-art research laboratory and research support space for the Virginia Tech Carilion School of Medicine and Research Institute.

9. Renovate Hillcrest Hall

Hillcrest Hall is a 47,800 gross square foot building constructed in 1949 with an addition in 1971 and currently houses the honors academic and residential programs. This project will renovate the first and second floors to better support the residential honors program and undergraduate academic support programs.

10. Renovate Wallace Hall

This project will renovate and modernize approximately 9,000 square feet within Wallace Hall to provide improved academic support, research, and administrative office space for the College of Liberal Arts and Human Sciences and the College of Business Department of Hospitality and Tourism Management's demonstration kitchen facility.

11. Replace Food Science and Technology Building

This project is to replace the existing three-story, 48,000 gross square foot Food Science and Technology Building that was originally constructed in 1952 with a modern laboratory facility. The current building is one of the most outdated academic and research buildings on campus.

12. International Affairs Building

The project envisions a new, on-campus International Affairs Building to serve as a permanent student support center and consolidate International Affairs programs. The

envisioned 20,000 gross square foot building will include administrative space for the International Affairs programs, temporary living space for visiting scholars, and student commons spaces for international students.

13. Renovate Price Hall

Price Hall was constructed in 1907 and is one of the oldest buildings on the campus. The 57,000 gross square foot building has received no major renovations, upgrades, or improvement projects since the original construction was completed. This project proposes to gut and renovate the entire building for offices, conference/seminar rooms, classrooms, and computer laboratories to repurpose for academic programs.

14. Data Center

The University Data Center is envisioned to be a 55,000 gross square foot building that will be a resource supporting and in partnership with institutes, colleges, departments, and administrative areas to address needs for information storage and transmission.

15. Manufacturing Prototype and Demonstration Facility

This project envisions a 40,000 gross square foot facility that will feature a flexible use mechanical laboratory that will enable the testing of large equipment. The building will be shared by the College of Architecture and Urban Studies and the Institute for Critical Technology and Applied Science.

16. Power Plant/Substation

The projected rate of campus growth in the master plan is expected to exceed the expected serviceability of the existing power plant by 2020. This project is to plan and build additional power plant capacity for the campus and include the use of alternative energy sources.

17. Campus Road Package, Phase II

This project is the second of two campus road projects. This phase envisions four sub-projects: the realignment of Duck Pond Drive with Perry Street, a roundabout at Washington Street and Spring Road, a walkway under Duck Pond Drive, and removal of the anticipated abandoned section of Southgate Drive after the airport runway extension is complete.

18. War Memorial Hall Renovation of Recreation Spaces

This project envisions a comprehensive renovation of the 123,000 gross square foot Recreation Sports portion of War Memorial Hall inclusive of envelope, mechanical, electrical, and plumbing upgrades. A majority of the gymnasium will be converted into new spaces to accommodate modern priorities in student recreation and sports. In addition, the showers and lockers will be upgraded and a new access-controlled entry will be provided.

19. New Student Center

This project is to build a new 240,000 gross square foot student center to replace Squires Student Center. Squires Student Center cannot accommodate the demand for space from students and expansion is not practical because of site and structural constraints.

20. Graduate Student Center Housing

This project is to build a 19,200 gross square foot residential facility to provide apartments with an on-site daycare center for graduate students and their families. This resource is desired to support growth of graduate student enrollment.

21. Rector Field House Renovation

Rector Field House, which serves a majority of Olympic Sports, does not have restrooms and seating sufficient for events held at the field house. This project would add 16,600 gross square feet for additions to both long sides of the building to provide additional restrooms and install bleachers. A new athletic flooring surface will be installed once Rector Field House is no longer used by the football program. The project would also include an addition for a softball batting practice cage.

22. Baseball Press Box and Restrooms Improvements

This project would result in a renovated and expanded facility totaling 10,000 gross square feet. It provides improvements to the existing press box and restrooms at English Field allowing the facility to meet the expectations of fans and media support personnel.

23. Tennis Stadium Renovation

This project is to terrace the bank at the outdoor tennis courts to make room for seating and would add 18,000 gross square feet for restrooms, locker rooms, and two additional indoor courts.

Cooperative Extension/Agricultural Experiment Station Division

1. Human & Agricultural Bioscience Building, Phase II

This project is to provide a 92,300 gross square foot modern research space for the Agricultural Experiment Station including research laboratories, laboratory support space, research offices, faculty offices, and graduate student research space.

Third Biennium: 2018-2020

University Division

1. Replace Center for Molecular Medicine and Infectious Disease

This project proposes to replace the antiquated life sciences research laboratories and support facilities of the complex currently located at Price Fork Road. The replacement

project is envisioned as an approximately 25,000 gross square foot facility located near the existing College of Veterinary Medicine complex.

2. Patton Hall Renovation

Patton Hall was constructed in 1926 with no major renovations or improvements since it went into service. This project proposes to fully renovate the interior and exterior of the 53,000 gross square foot building to support engineering programs in Civil and Environmental Engineering and Engineering Science and Mechanics.

3. Hutcheson/Smyth Halls Renovation

Smyth Hall was constructed in 1939 and Hutcheson Hall was constructed in 1940 with neither building having any major renovations or improvements since going into service. This project proposes to fully renovate their combined 104,710 gross square feet to support academic programs in the College of Agriculture and Life Sciences as well as the Department of Statistics.

4. Bishop-Favrao Hall Expansion

This project envisions a 70,000 gross square foot expansion to Bishop-Favrao Hall, which houses the Myers-Lawson School of Construction.

5. New Natural Resources Building

The College of Natural Resources and Environment has filled Cheatham Hall and requires additional instructional and research space to grow. This project reflects the college's need for an 87,000 gross square foot facility to house all of the central campus Natural Resources and Environment programs.

6. VTTI Research Building IV

The Virginia Tech Transportation Institute is projected to need a new building in approximately five years based on current growth. This project envisions a 50,000 gross square foot project for the Institute which will complete the master plan for the area.

7. Squires Conversion to Academics

Squires was originally built in 1937 and renovated/expanded in 1969 and again in 1991. A new student center is planned in the second biennium. This project envisions the renovation and conversion of the 235,238 gross square feet of Squires Student Center to academic space after the new student center is complete. The project scope includes a connector to library.

8. Falls Church Facility Expansion

This project envisions a 15,000 gross square foot expansion to the Falls Church Facility to support growth of the northern Virginia graduate programs.

9. Pamplin Hall Renovation

Pamplin Hall was originally constructed in 1957 and renovated in 1988 including an addition and an atrium to connect the structures. A new building for the College of business is a priority item in the first biennium. This project proposes a renovation of the entire 105,000 gross square feet building for academic programs.

10. Kentland Facilities Improvements: Historic Renovations

The original Kentland facility was constructed in 1818. This project includes a complete renovation of the existing 15,000 gross square foot facility and support buildings to restore the buildings and to correct deterioration and deficiencies.

11. Sterrett Facility Renovation

Sterrett Center was originally constructed in 1958. This project envisions the renovation of the 75,520 gross square foot facility to enhance the Facilities services operating space.

12. Lane Hall Rehabilitation

Originally known as Barracks No. 1, Lane Hall was built in 1888 and converted to office use in 1967. This project is for the renovation and preservation of 28,520 square foot historic building to house academic programs.

13. VBI Data Center Expansion:

The existing data center at VBI is reaching capacity and cannot support the call for “big” data projects. This project proposes an economical solution for expanding the data center. The solution includes renovation of existing space and the use of modular data units that may be placed on a pad with incremental capacity needs addressed by adding units as need demands.

14. Academic Music Building

This project is to provide a facility to serve the music instruction and practice needs of the Marching Virginians, symphonic orchestra, symphonic band, and choral groups. The facility is envisioned as 30,000 gross square foot building including flexible rehearsal rooms that can be configured to ensemble uses, administrative offices, storage, locker rooms, and related support spaces.

15. Olivio Ferrari Pavilion

This project envisions the construction of a new 3,000 gross square foot pavilion behind Cowgill Hall for the College of Architecture and Urban Studies. The pavilion would hold donated collections and provide study and seminar space for faculty and students.

16. Owens Hall Renovation

Owens Hall is a 97,600 gross square foot dining facility constructed in 1939 with several small scale interior renovations, the latest completed in 1991. This project plans to make

major interior and exterior renovations including restrooms, dining area, food service, and dining venue stations, and address deferred maintenance.

17. Pritchard Hall Renovation

This project continues the modernization of outdated and deteriorated campus residential facilities. The renovation will fully update the 211,480 gross square foot, 1967 facility and will incorporate additional hall lounges, community and study rooms, expanded bathroom facilities, and air conditioning.

18. New Recreation Facilities

This project proposes to build a new 90,000 gross square foot recreation facility at the south end of the Oak Lane Community. The additional recreation space will address service demands from students and will provide the space in the north zone of campus where demand for recreation space is increasing.

19. G. Burke Johnston Renovation

This project is to renovate the 25,000 gross square foot student center built in 1990. The renovations include complete updates to the interiors, food service areas, building mechanical systems, and deferred maintenance.

20. Inn at Virginia Tech, Phase II

This project proposes to provide additional visitor accommodations to the existing 147 lodging rooms. The design of the Inn and Conference Center includes provisions for a future expansion of a wing of lodging rooms, and this project envisions adding approximately 55 guest rooms at such time as demand requires. The total expansion envisioned is 40,000 gross square feet.

Cooperative Extension/Agricultural Experiment Station Division

1. Middleburg Equine Arena

The current equine facilities at the Agricultural Research and Extension Center in Middleburg, Virginia are not adequate to support the research and outreach education activities. The proposed project is for a 16,000 gross square foot equine arena to accommodate the program needs.