Open Session Minutes

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, August 29, 2023

Open Session Meeting

The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Tuesday, August 29, 2023 at 8:48 a.m. in open session in Room G101 A/B of the Fralin Biomedical Research Institute at VTC (4 Riverside Circle) in Roanoke, Virginia. A quorum of the Committee was present. Ms. Long presided in the absence of Chair Harris.

Board members present: Ed Baine, Carrie Chenery, Sandy Davis, Nancy Dye, Donald Horsley, Tish Long, Joseph Merola – Faculty Representative, William Storey – Undergraduate Student Representative, Emily Tirrell – Graduate and Professional Student Representative

University personnel and guests: Laura Belmonte, Lynsay Belshe, Bob Broyden, Brock Burroughs, Mary Burrows, Joe Cooley, Gannon Davis, Jeff Earley, Alisha Ebert, Mike Friedlander, Mark Gess, Luisa Havens Gerardo, Emily Gibson, Alan Grant, Suzanne Griffin, Rebekah Gunn, Wendy Halsey, Patrick Hilt, Chris Kiel, Chris Kiwus, Rob Mann, Meghan Marsh, Elizabeth McClanahan, Liza Morris, Mike Mulhare, Heidi Myers, Ed Nelson, Nam Nguyen, Justin Noble, Kim O'Rourke, Kelly Oaks, Stephanie Overton, Charlie Phlegar, Julie Ross, Tim Sands, Amy Sebring, Ken Smith, Michael Stowe, Dan Sui, Dwyn Taylor, Jon Clark Teglas, and Tracy Vosburgh

- **1. Welcome and Introductions:** Ms. Long convened the meeting and provide welcoming remarks.
- **2. Consent Agenda:** The Committee approved the Consent Agenda and the items it contained.
 - **a. Minutes from the June 2023 Committee Meeting:** The Committee approved the minutes from its June 2023 meeting.
 - * b. Resolution for Disposition of University Buildings at Southern Piedmont AREC: The Committee reviewed for approval a resolution to disposition university buildings at the Southern Piedmont Agricultural Research and Extension Center (AREC) in Blackstone, Virginia. Specifically, Buildings No. 0903A and 0903B. The Southern Piedmont AREC engages in research of tobacco, fruit, and other crop research and educational programs requiring multiple types of facilities. Buildings No. 0903A and 0903B have fallen into disrepair and are beyond their useful life for the teaching and research programs. The university desires to surplus

the vacant structures before they fall into further disrepair. Buildings 0903A and 0903B are vacant greenhouses, and each is 432 square feet. They were erected on site in 2005 and 2007 respectively. The structures will be disassembled, removed and sent to surplus. The existing concrete slab will remain. The university will obtain required approvals prior to the disposition of these structures.

The Committee recommended the resolution authorizing the disposition of Buildings No. 0903A and 0903B to the full Board for approval.

c. Resolution on Appointments to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority: The Committee reviewed for approval a resolution on appointments to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority. The Blacksburg-Virginia Polytechnic Institute Sanitation Authority was created January 30, 1962, pursuant to the Virginia Water and Sewer Authorities Act, Code of Virginia (1950, as amended) for the purpose of constructing and maintaining a sewer disposal system for the participating entities, which include the Town of Blacksburg and Virginia Tech. The Authority's Board consists of five members. The Town of Blacksburg and the Board of Visitors of Virginia Tech each appoint one member to the Board; the remaining three members are jointly appointed by the two entities. From time to time, it is necessary to appoint and reappoint members of its Board of Directors in connection therewith. Current terms for the university's representative and two of the three atlarge members expire January 1, 2024. In anticipation of these term expirations and to ensure appropriate continuity of operations, Virginia Tech desires to reappoint Chris Kiwus, Vice President for Campus Planning, Infrastructure, and Facilities, as the university's representative and member of the Authority's Board of Directors for a new four-year term expiring January 1, 2028. Additionally, Virginia Tech and the Blacksburg Town Council desire to reappoint Ray Smoot and Ron Rordam as at-large members of the Authority's Board of Directors for new four-year terms expiring January 1, 2028. The term of the third jointly appointed representative and at-large member, third, Lu Merritt, is a four-year term effective January 1, 2022 and expiring January 1, 2026. No action was requested for Mr. Merritt's appointment, as that would be considered at the recommendation of the university and pleasure of the Board in a future meeting as the term expiration nears.

The Committee recommended the resolution on appointments to the full Board for approval.

#+ 3. Overview of the University's Physical Assets and Investment Approach: The Committee received an overview of the university's physical assets and investment approach from Chris Kiwus, Vice President for Campus Planning, Infrastructure, and Facilities. Virginia Tech is committed to providing a safe, inclusive, accessible,

sustainable, mission-centric, partner-focused, and cost-effective infrastructure that preserves, fosters, complements, and advances the university's distinct senses of place and service. Extensive land holdings, effectively maintained and growing facilities, and a modern inventory of equipment and systems provide a sound foundation for current programs and future initiatives. The university's strategic physical asset investment programs include operations and maintenance, customer requested renovations, facilities renewal, maintenance reserve, and capital project.

- #+ 4. Overview of the Campus Master Plan: The Committee received an overview of Beyond Boundaries 2047: The Campus Plan from Liza Morris, Assistant Vice President for Planning and University Architect. The current plan — approved by the Board of Visitors in November 2018 — guides current and future campus leaders as they imagine and develop the Blacksburg campus and the university's agricultural research and extension centers through 2047. The plan, a key initiative connecting across all core values of the university's strategic plan prepares the university for the next generation of higher education. The plan builds upon the Beyond Boundaries vision to ensure appropriate capacity in facilities and infrastructure, as seen in the plan's vision for living-learning communities anchored by flexible learning spaces. Since its completion, the plan has received two national achievement awards. In 2019 the Society for College and University Planning awarded the university the Excellence in Planning for an Existing Campus Merit Award for its innovative, collaborative, multidisciplinary, and integrated approaches to planning and design. In 2021, the university received the Excellence in Landscape for Open Space Planning Award (also awarded by the Society for College and University Planning) for universal design features within the plan set to boost campus accessibility and mobility.
- #+ 5. Overview of the Capital Construction Program: The Committee received an overview of the university's capital construction program from Bob Broyden, Associate Vice President for Campus Planning and Capital Financing, and Dwyn Taylor, Assistant Vice President for Capital Construction. The Capital Construction team provides leadership in the administration and management of all major capital outlay projects, which are defined as projects with a total project cost of \$3 million or more inclusive of all expenditures necessary to complete the project, and/or projects involving the construction of 5,000 square feet or more. Project managers work closely with sponsoring colleges and departments, future building users, and other project stakeholders to achieve project goals. Following project authorization by the Board of Visitors, project managers coordinate all phases of a project from initiation through completion and close-out.
- #+ 6. Acceptance of the Capital Project Status Report: The Committee accepted the quarterly capital project status report from Dwyn Taylor, Assistant Vice President for Capital Construction. The current active portfolio of projects includes 16 authorized projects -- active and complete (within a 1-year warranty phase), has a total value of approximately \$1.1 billion, adds approximately 1.6 million gross

square feet (GSF) of new construction, and renovates nearly 300,000 gross square feet of existing space. Reports in November 2023, April 2024, and June 2024 be included on the Committee's consent agenda.

7. Update on Agricultural Facilities: The Committee received an update from Alan Grant, Dean of the College of Agriculture and Life Sciences, on agricultural facilities planning and construction. The update included project status information and an introduction of Mary Burrows, the new Associate Dean and Director of the Virginia Agricultural Experiment Station.

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#+ 8. Design Preview and Review for the Life, Health, Safety, Accessibility, and Code Compliance - Priority 2: The Committee reviewed for approval the joint design preview and review for the Life, Health, Safety, Accessibility, and Code Compliance - Priority 2 project. Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the Commonwealth. This project is the second priority of three high priority accessibility initiatives identified by the university in the Life, Health, Safety, Accessibility & Code Compliance category of the 2018-2024 Capital Outlay Plan. The project is scoped to create a new accessible route on an existing primary pedestrian corridor which will support equal access to key Education and General funded facilities in the North Academic District. The project is in the working drawings phase with construction anticipated to begin late fall of 2023 and to attain substantial completion late fall of 2024. The university received total project funding of \$10.4 million in Life, Health, Safety, Accessibility & Compliance funds from the state for three priority projects, \$3.9 million of which will be applied to the second priority project.

The Committee approved the design preview and review graphics and authorized continuation with the project design consistent with the drawings shown.

9. Design Review for Mitchell Hall: The Committee reviewed for approval the design review for Mitchell Hall. Virginia Tech's top ranked College of Engineering has grown 68 percent since the fall of 2006. As of 2022-2023 the number of Bachelors, Masters and Doctorate represents 39 percent degree production at the institution. To address this growth and aging facilities, as well as accommodate changing pedagogies, a new Mitchell Hall facility will replace undersized and outdated Randolph Hall with a state-of-the-art engineering hub. The facility will primarily house Aerospace and Ocean Engineering, Mechanical Engineering, and Engineering Education departments; it will provide project space for student teams, supporting national team-based research and development competitions. The project also provides student collaboration and general assignment classroom spaces serving the entire campus community. The project received \$11 million of authorization for design funding in the 2020 Acts of Assembly, full project funding in the 2022 Acts of Assembly with a total budget of \$292 million, and is in the working drawing phase. Construction activities are anticipated to begin in the winter of 2023 with substantial completion planned for the summer of 2027. Dean Julie Ross offered comments of support and appreciation, noting the transformational impact of the project on the College of Engineering and on Virginia Tech as a whole.

The Committee approved the design review graphics and authorized continuation with the project design consistent with the drawings shown.

10.Future Agenda Items and Closing Remarks: The Committee deferred the discussion of potential topics for inclusion on future meeting agendas.

There being no further business, the meeting adjourned at 11:00 a.m.

Joint Open Session with the Finance and Resource Management Committee

The Buildings and Grounds Committee and the Finance and Resource Management Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Tuesday, August 29, 2023 at 11:05 a.m. in joint open session in Room G102 A/B of the Fralin Biomedical Research Institute at VTC (4 Riverside Circle) in Roanoke, Virginia. A quorum of the joint Committee was present.

Board members present: Janice Austin – A/P Faculty Representative, Ed Baine, LaTawnya Burleson – Staff Representative, Carrie Chenery, Sandy Davis, Nancy Dye, Donald Horsley, Anna James, Tish Long, Joseph Merola – Faculty Representative, John Rocovich, William Storey – Undergraduate Student Representative, Emily Tirrell – Graduate and Professional Student Representative

University personnel and guests: Callan Bartel, Laura Belmonte, Lynsay Belshe, Haley Bennett, Eric Brooks, Bob Broyden, Brock Burroughs, Cyril Clarke, Al Cooper, Gannon Davis, Corey Earles, Jeff Earley, Alisha Ebert, Mike Friedlander, Mark Gess, Luisa Havens Gerardo, Emily Gibson, Alan Grant, Ellington Graves, Suzanne Griffin, Rebekah Gunn, Kay Heidbreder, Tim Hodge, Anne Keeler, Chris Kiwus, Sharon Kurek, Rob Mann, Meghan Marsh, Elizabeth McClanahan, Nancy Meacham, Ken Miller, Liza Morris, Mike Mulhare, Heidi Myers, Justin Noble, Kelly Oaks, Mark Owczarski, John Pastor, Charlie Phlegar, Jon Porter, Paul Richter, Julie Ross, Tim Sands, Amy Sebring, Cliff Shaffer, Brennan Shepard, Ken Smith, Michael Stowe, Dan Sui, Aimee Surprenant, Don Taylor, Jon Clark Teglas, Rob Viers, Tracy Vosburgh, Melinda West, Chris Yianilos

*#+
 1. Ratification of the Capital Outlay Plan for 2024-2030: For first item on the joint open session agenda, the Committees reviewed for ratification the Capital Outlay Plan for 2024-2030.

At the March 2023 meeting, the Board approved a resolution for the university's 2024-2030 Capital Outlay Plan, and since that time, the state issued the

instructions for preparation and submission. The final plan was updated in accordance with guidelines from the state and submitted on June 22, 2023.

Bob Broyden, Associate Vice President for Campus Planning and Capital Financing, updated the committee on changes to the plan since the March 2023 approval.

The Committees recommended the Capital Outlay Plan for 2024-2030 to the full Board for ratification.

2. Approval of Resolution to Amend a Long-term Lease for Children's National Hospital: The Committees reviewed for approval a Resolution to Amend a Long-term Lease for Children's National Hospital. This request is for authorization to amend the university's existing lease with the Children's National Research Center to include an additional 12,350 rentable square feet for furthering research.

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The Committees recommended the Resolution to Amend a Long-term Lease for Children's National Hospital to the full Board for approval.

There being no further business, the meeting adjourned at 11:23 a.m.

Open Session Agenda

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, August 29, 2023 Open session meeting begins at 8:45 a.m. in Room 101 A/B, Fralin Biomedical Research Institute

		Agenda Item	Reporting Responsibility
	1.	Welcome and Introductions	Committee Chair Chris Kiwus
*	2.	 Consent Agenda a. Minutes from the June 2023 Committee Meeting b. Resolution for Disposition of University Buildings at Southern Piedmont AREC c. Resolution on Appointments to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority 	Committee Chair Chris Kiwus
#+	3.	Overview of the University's Physical Assets and Investment Approach	Chris Kiwus
#+	4.	Overview of the Campus Master Plan	Liza Morris
#+	5.	Overview of the Capital Construction Program	Bob Broyden Dwyn Taylor
#+	6.	Acceptance of the Capital Project Status Report	Dwyn Taylor
+	7.	Update on Agricultural Facilities	Alan Grant
#+	8.	Design Preview and Review for the Life, Health, Safety, Accessibility, and Code Compliance - Priority 2	Liza Morris
+	9.	Design Review for Mitchell Hall	Liza Morris
	10.	Future Agenda Items and Closing Remarks	Committee Chair

Open Joint Session Agenda

FINANCE AND RESOURCE MANAGEMENT COMMITTEE AND BUILDINGS AND GROUNDS COMMITTEE

Room 102 A/B, Fralin Biomedical Research Institute

10:45 a.m.

August 29, 2023

Agenda Item

- ***#+** 1. Ratification of the Capital Outlay Plan for 2024-2030
 - * 2. Approval of Resolution to Amend a Long-term Lease for Children's National Hospital

Reporting Responsibility

Ken Miller Chris Kiwus Bob Broyden

Ken Miller Chris Kiwus Bob Broyden

* Requires full Board approval# Discusses Enterprise Risk Management topic(s)

+ Discusses Strategic Investment Priorities topic(s)

Consent Agenda

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, August 29, 2023

The Committee will consider for approval and acceptance the items listed on the Consent Agenda.

Consent Agenda

- a. Minutes from the June 2023 Committee Meeting
- b. Resolution for Disposition of University Buildings at Southern Piedmont AREC
- * c. Resolution on Appointments to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority

* Requires full Board approval.



OVERVIEW OF THE UNIVERSITY'S PHYSICAL ASSETS AND INVESTMENT APPROACH

CHRISTOPHER H. KIWUS, PE, PHD

VICE PRESIDENT FOR CAMPUS PLANNING, INFRASTRUCTURE, AND FACILITIES

August 29, 2023

Overview

With 250,000 living alumni and students who have come to Tech from every state and more than 100 countries, Virginia Tech is rooted in many places.

Virginia Tech has a 2,800-acre campus in Blacksburg, Virginia; a significant presence across the commonwealth, including the Innovation Campus in Northern Virginia, the Health Sciences and Technology Campus in Roanoke, and sites in Newport News and Richmond; educational and research facilities across the state; a study-abroad site in Switzerland; and a 1,800-acre agriculture research farm near the main campus.

As the university meets the global demands of the future, the 'campus' is constantly adapting to fulfill learning and research needs.



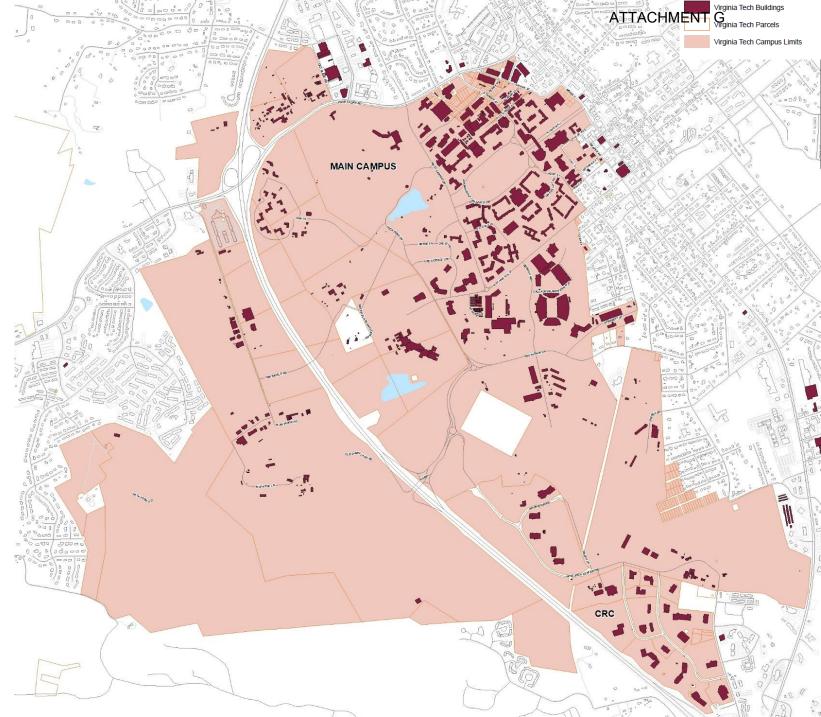
Blacksburg

Virginia Tech's Blacksburg campus consists of approximately **7,000 acres**, **13.3 million gross square feet** (GSF), and **455 buildings** located in Montgomery County.

The campus proper is located in the Town of Blacksburg and consists of **2,800 acres**.

The Blacksburg campus, including the Corporate Research Center (a Virginia Tech Foundation, Inc. property), consists of approximately **4.1 square miles**. These buildings include **359 Educational and General buildings** containing approximately **5.8 million GSF,** and **114 Auxiliary buildings** containing approximately **5.5 million GSF**.

Associated with the Blacksburg campus are **376 buildings** containing over **11.3 million GSF** (not including two Virginia Tech Foundation, Inc. owned buildings). There are **219 major buildings** (≥5,000 GSF and/or normally occupied) and nearly **24 miles of maintained roadways**.



ARECs & Virginia Cooperative Extension

Virginia Agricultural Research and Extension Centers (ARECs) serve the commonwealth's agricultural needs. The **11 ARECs** total **over 4,600 acres** (including **roughly 1,400 acres of adjacent leased land**) and **227 buildings** with approximately **600,000 gross square feet** of space. These centers comprise a portion of Virginia's Agricultural Experiment Station research system.

The Virginia Cooperative Extension provides research-based information to the commonwealth through **108 county and city** extension offices and six 4-H education centers.



6 4-H Educational Centers
 107 Local Extension Offices

Roanoke

The New River and Roanoke valleys are linked more tightly than ever thanks to collaborations among Virginia Tech, Carilion Clinic, and other partners. Roanoke is the home to the university's ninth college, the Virginia Tech Carilion School of Medicine and the adjoining Fralin Biomedical Research Institute at VTC.

Both are part of the VTC Health Sciences and Technology Campus in the Roanoke Innovation Corridor. The city is also home to Virginia Tech Roanoke Center, the Virginia Tech Center for Organizational and Technological Advancement, and the Hotel Roanoke & Conference Center, which is owned by the Virginia Tech Foundation.



Greater Washington, D.C., Metro Area

With facilities, faculty, graduate degrees, and research in the region since 1969, Virginia Tech has a long history in the Washington, D.C., area.

The university offers 45 graduate degree and certificate programs and has facilities in seven Northern Virginia locations. These include the Northern Virginia Center in Falls Church, the Marion duPont Scott Equine Medical Center in Leesburg, the Virginia Tech Research Center – Arlington and Advanced Research Institute in Arlington, Washington-Alexandria Architecture Center in Alexandria, the Occoquan Watershed Monitoring Laboratory in Manassas, and the Middleburg Agricultural Research and Extension Center in Middleburg.

In June 2019, Virginia Tech officials announced plans to build the university's Innovation Campus, National Gateway, in Alexandria.

The campus's strategic location, on 15 acres just south of the Four Mile Run stream that separates Alexandria and Arlington, positions Virginia Tech and its future partners near the nation's capital, diverse industries, and leading tech companies, including Amazon and its HQ2 project.

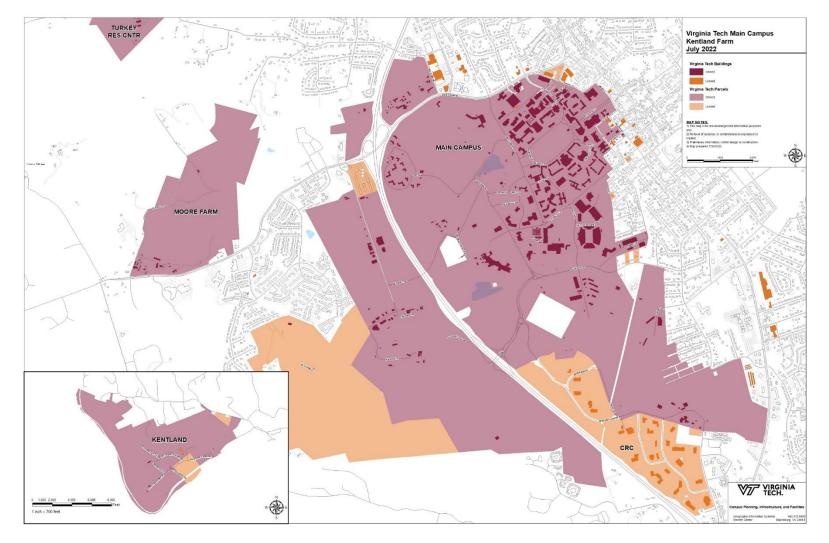


Leased Land & Facilities

Generally, the leasing of off-campus space by the university is an **interim solution** to space challenges. Off-campus leases are intended to continue only if appropriate university-owned space does not become available, except for those buildings owned by the VTF for long-term use by the university.

Overall, the university leases **approximately 2.3 million square feet** of space (offices, labs, classrooms, residential units, and warehouses) throughout various areas in Virginia, other states, and internationally in Switzerland.

There are **70 leased buildings** containing approximately **1.8 million GSF** that support the main Blacksburg campus.



FACILITIES MANAGEMENT APPROACH



The Division of Campus Planning, Infrastructure, and Facilities provides safe, inclusive, accessible, sustainable, mission-centric, partner-focused, and cost-effective spaces that preserve, foster, complement, and advance Virginia Tech's distinct senses of place and service. In accordance with university policy, the Vice President for Campus Planning, Infrastructure, and Facilities is charged with the responsibility for the design, construction, and maintenance of the university's buildings and grounds.

To achieve this, the following objectives must be met:

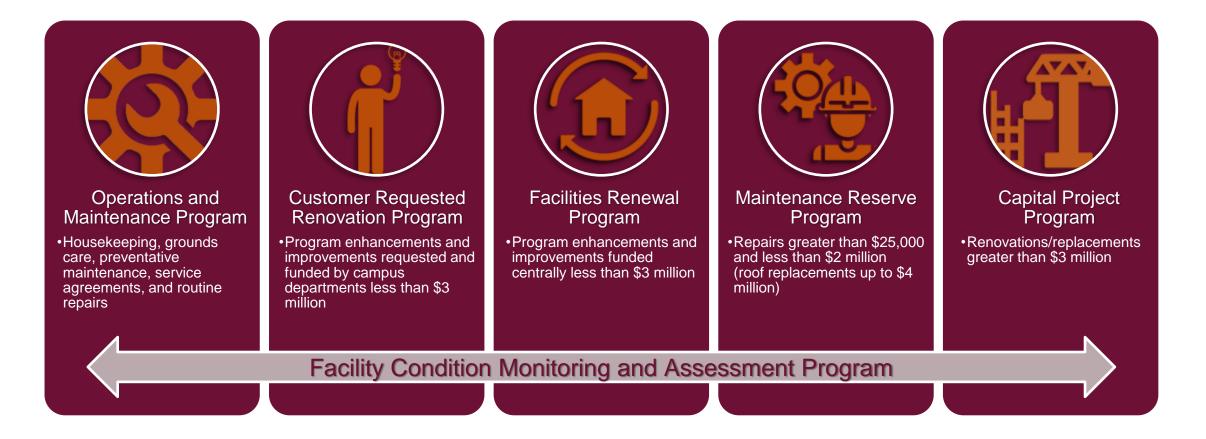
- University facilities must be designed, constructed, renovated, and maintained in accordance with the Virginia Uniform Statewide Building Code, and acceptable accessibility, currently the ADA Accessibility Guideline.
- The university must comply with building permitting procedures developed and enforced by the Office of the University Building Official.
- The design, construction, renovation, maintenance, and repair of university facilities must be accomplished in a manner consistent with the university's master plan, historic preservation concerns, university standards of quality and aesthetics, and environmental health and safety standards.
- The public and private investment in the university's facilities must be protected by providing appropriate control over the manner in which they are maintained and renovated.
- The university's records of its facilities must be kept current.
- The work performed on university facilities must be done by qualified personnel in accordance with legal requirements.

Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)

13.7 PHYSICAL RESOURCES

The institution ensures adequate physical facilities and resources, both on and off campus, that appropriately serve the needs of the institution's educational programs, support services, and other mission-related activities.

FACILITIES INVESTMENT APPROACH



VIRGINIA TECH

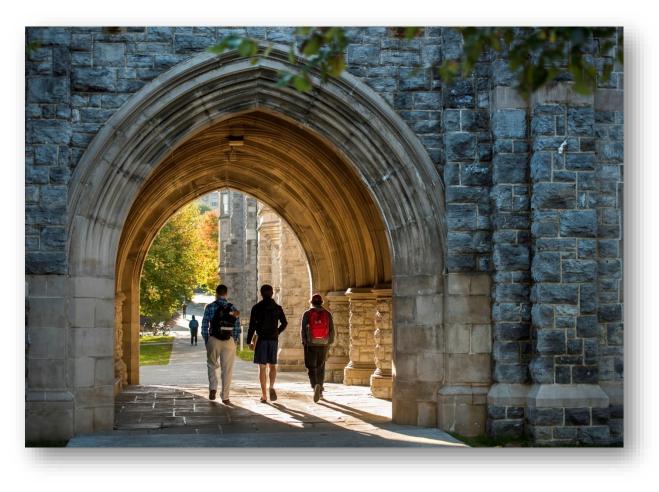
ATTACHMENT G

OVERVIEW OF THE UNIVERSITY'S PHYSICAL ASSETS AND INVESTMENT APPROACH

Summary

Virginia Tech is committed to providing a safe, inclusive, accessible, sustainable, mission-centric, partner-focused, and cost-effective infrastructure that preserves, fosters, complements, and advances the university's distinct senses of place and service.

Extensive land holdings, effectively maintained and growing facilities, and a modern inventory of equipment and systems provide a sound foundation for current programs and future initiatives.





OVERVIEW of the **CAMPUS MASTER PLAN**

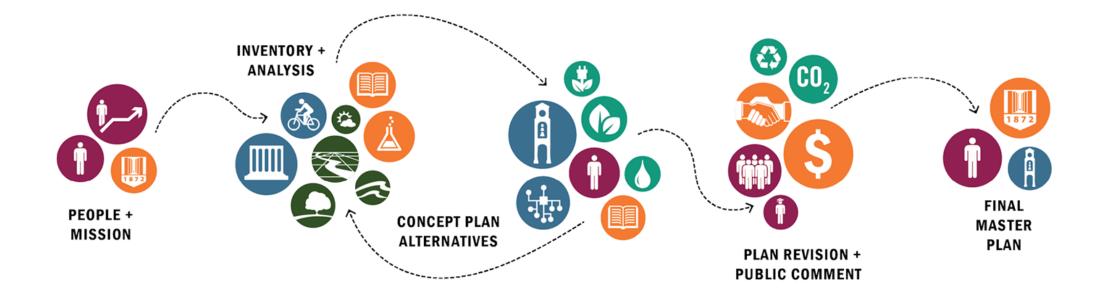
LIZA MORRIS

ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

August 29, 2023

ATTACHMENT G

PLANNING PROCESS



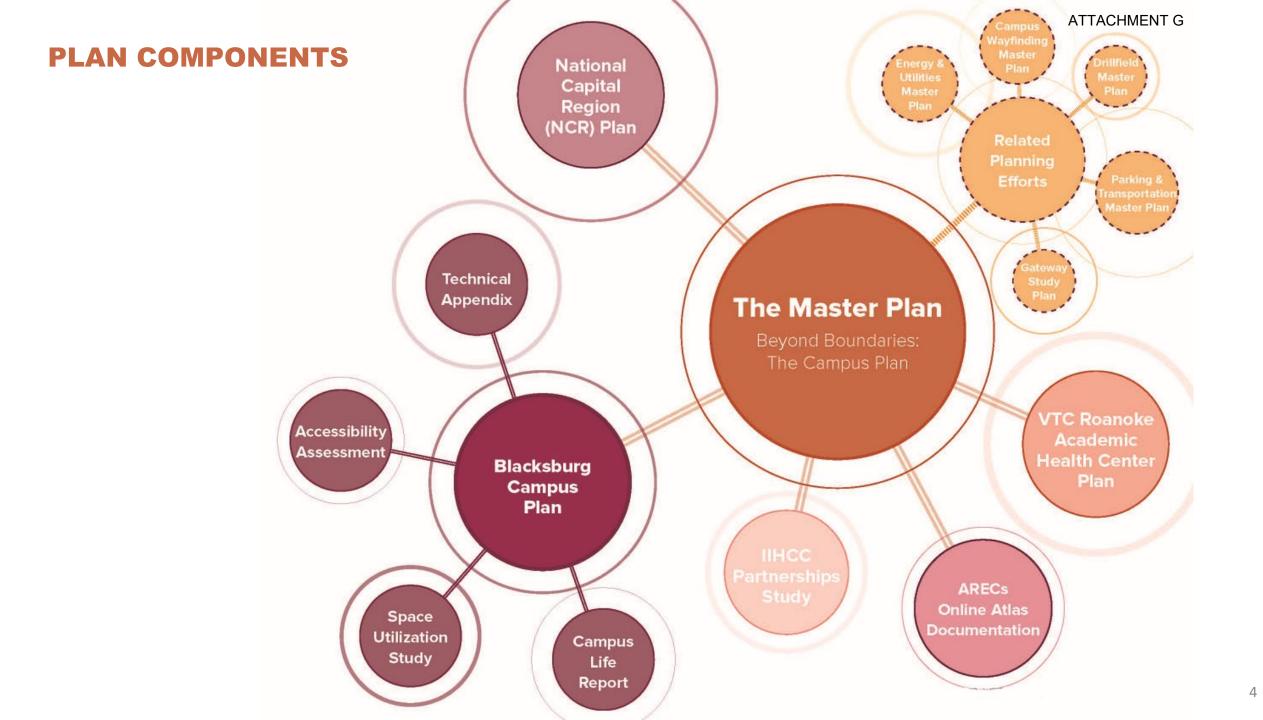
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VT-Shaped Discovery

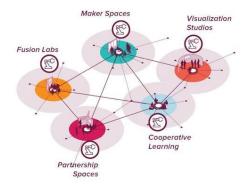
- VT SHAPED STUDENTS
- INTERDISCIPLINARY TEAMS
- PURPOSE-DRIVEN AND PERSON-CENTERED CURRICULUM

The VT student of 2047 learns by doing, creating, and engaging, service to humanity, and does so not in isolation or as an academic exercise but rather with the support of a community.





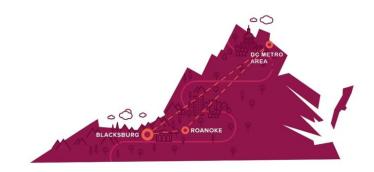
PLAN DRIVERS



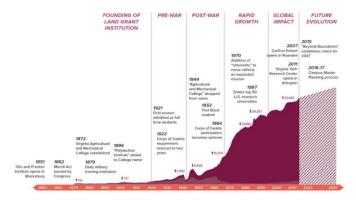
O1 The VT Experience



02 Sense of Place



03 Connections



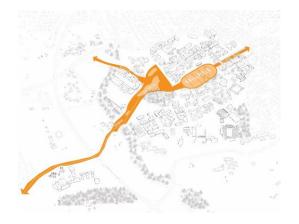


Smart Transfer Bike Land Crossings Pods Pods Pods

05 Access for All



CAMPUS VISION



The Central Spine







D2 The Agricultural Belt





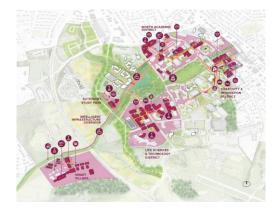


03 The Campus Districts



06 The Green Links

FRAMEWORKS



C Academic & Research Framework ENHANCING LEARNING AND RESEARCH ENVIRONMENTS



Strategic Partnerships Framework EXPANDING STRATEGIC PARTNERSHIPS



Campus Life Framework FOSTERING AN INCLUSIVE CAMPUS LIFE EXPERIENCE



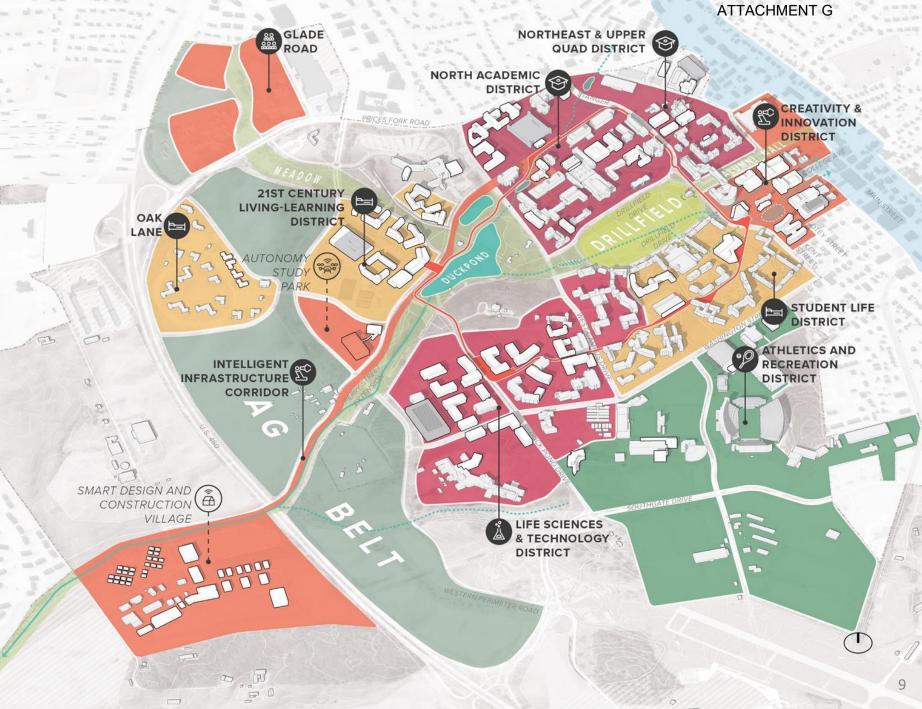


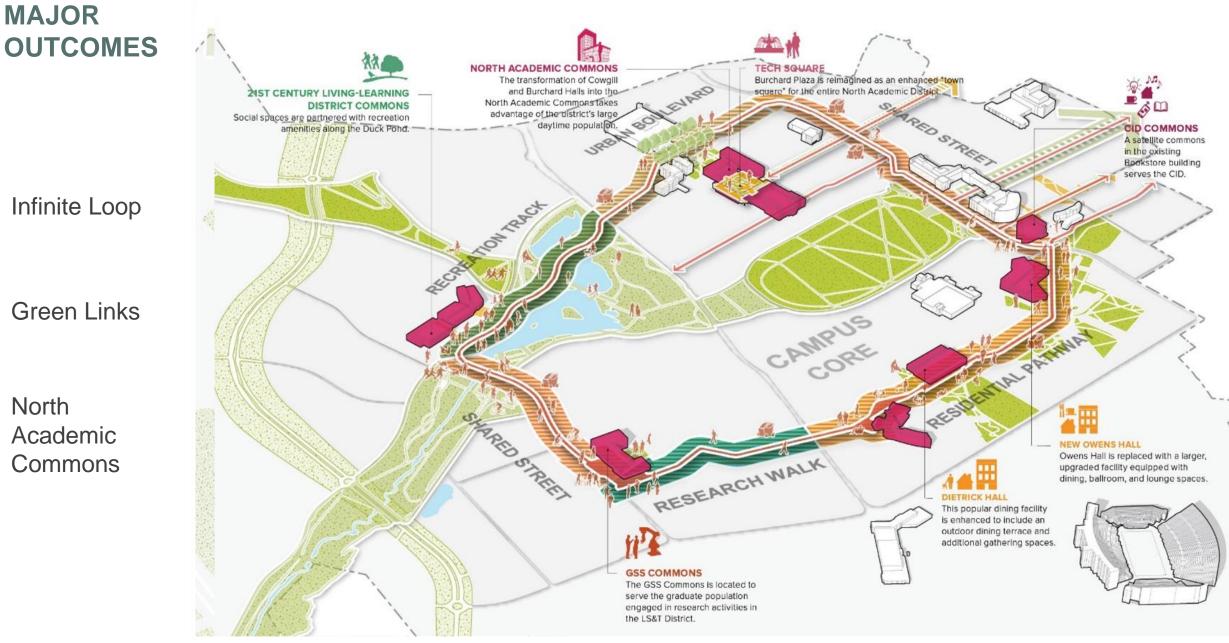


B Mobility Framework PROMOTING ACCESS AND MOBILITY

DISTRICTS

- **6** NORTH ACADEMIC DISTRICT
- NORTHEAST & UPPER QUAD DISTRICT
- CREATIVITY & INNOVATION DISTRICT
- 5 STUDENT LIFE DISTRICT
- LIFE SCIENCES & TECHNOLOGY DISTRIC
- 21ST CENTURY LIVING-LEARNING DISTRI
- CORRIDOR
 - PERIPHERAL DISTRICTS
 - 8 ATHLETICS AND RECREAT
 - S GLADE ROAD
 - OAK LANE





ILLUSTRATIVE PLAN





DISCUSSION



OVERVIEW OF THE CAPITAL CONSTRUCTION PROGRAM

BOB BROYDEN ASSOCIATE VICE PRESIDENT FOR CAMPUS PLANNING AND CAPITAL FINANCING

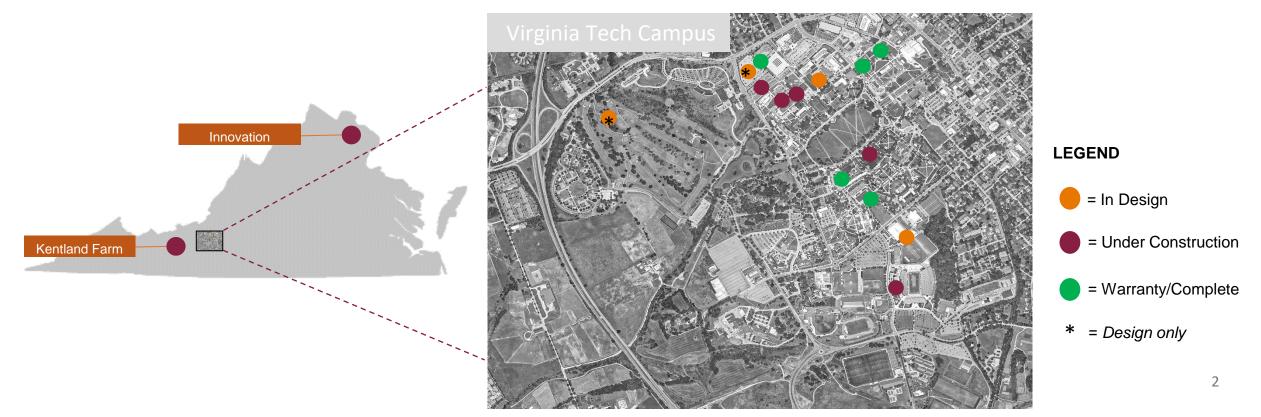
DWYN TAYLOR ASSISTANT VICE PRESIDENT FOR CAPITAL CONSTRUCTION

AUGUST 29, 2023

PROGRAM

Current portfolio:

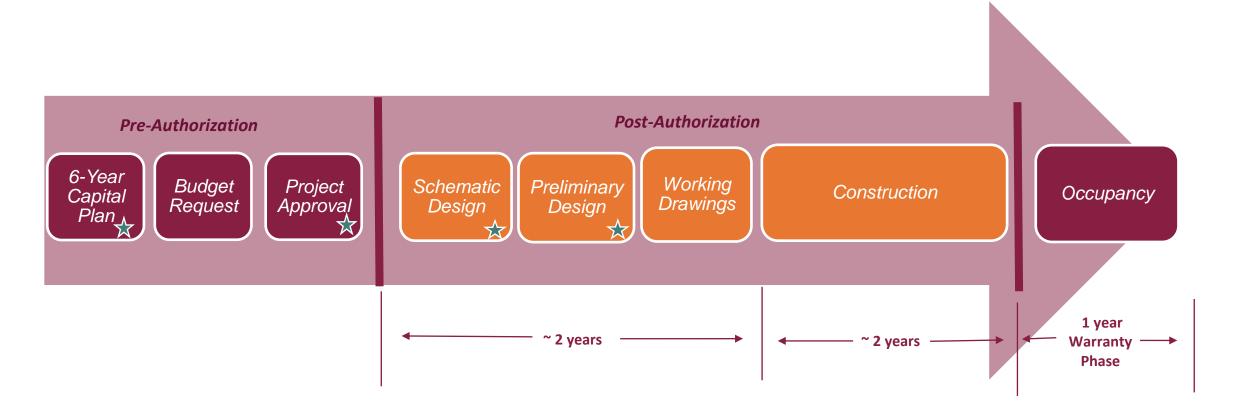
- 16 authorized projects -- active and complete (w/in 1-year warranty phase)
- Total value of ~\$1.1B
- Adds ~1.3M gross square feet (GSF) of new construction
- Renovates nearly 300K GSF of existing space

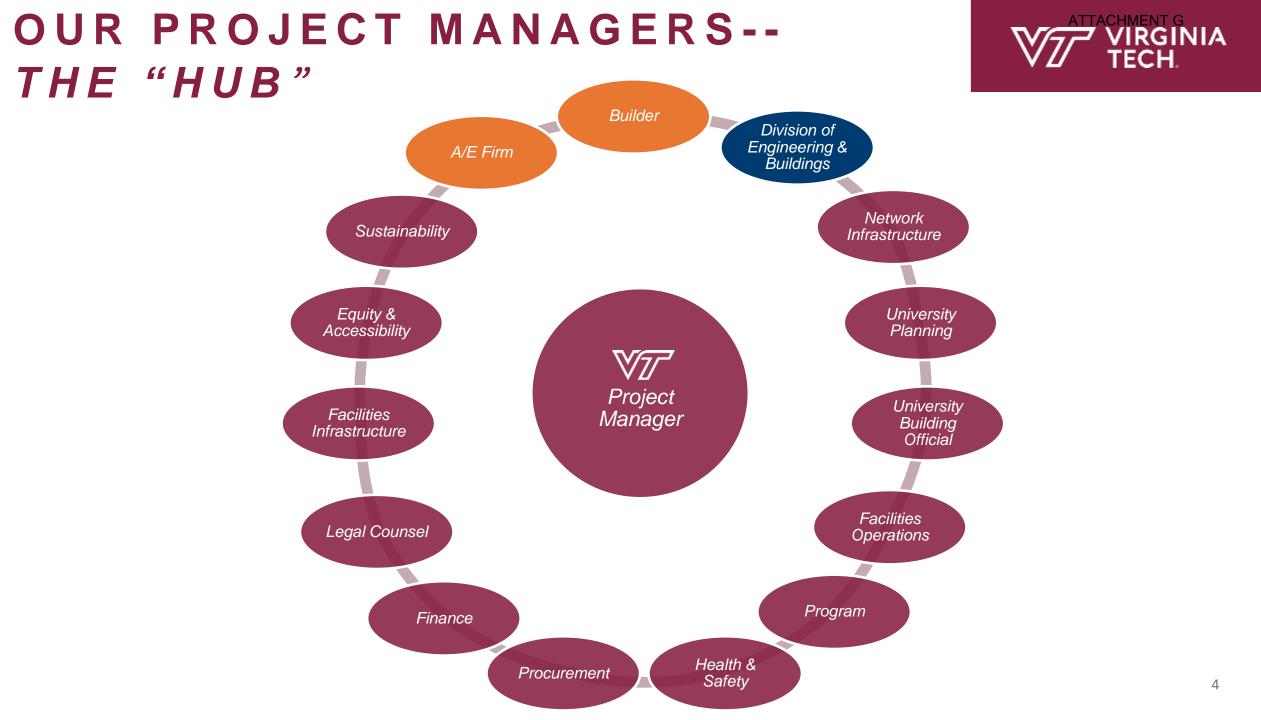




OVERALL PROCESS

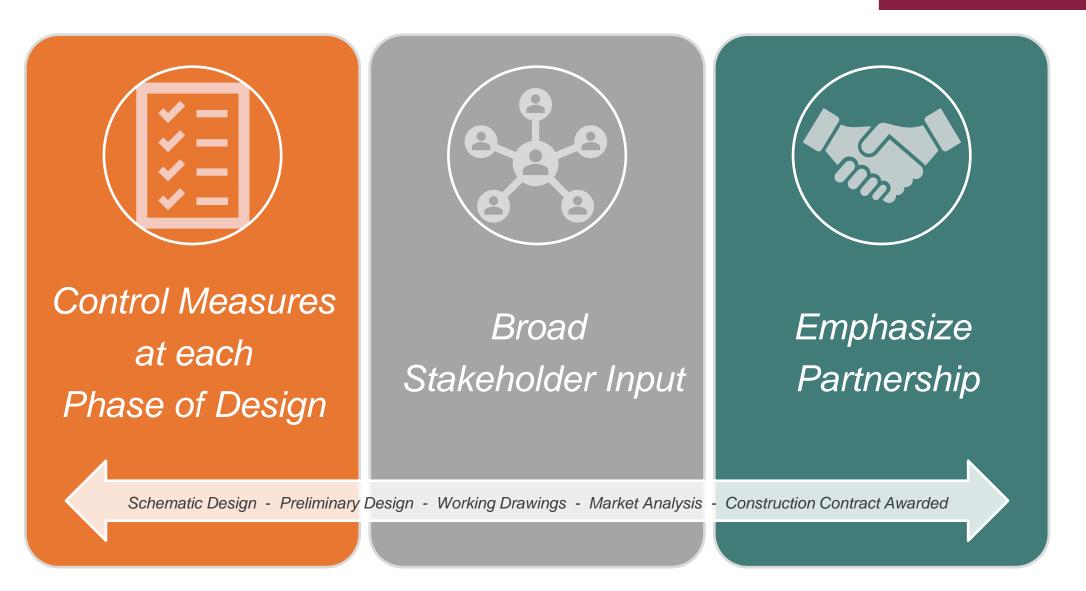






ENSURING <u>DESIGN</u> EXCELLENCE





ENSURING <u>CONSTRUCTION</u> EXCELLENCE









Competitive Sealed Bids "Design-Bid-Build" Construction Manager at Risk

Design - Build



(Progressive) Capital Construction Executive Summary Date Prepared: 24 Jul 2023

		Total	Construction	New			CY 2	2023				CY 2	024			CY	2025	
Project Title		Project Budget (\$M)	Budget (\$M) (Construction contract value)	Const (GSF)	Renovation (GSF)	FY Q3 Jan-Mar	Q4 Apr-Jun	() Jul		F \ Q2 Oct-Dec	(24 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	FY25 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	'26 Q2 Oct-Dec
Dietrick Renovation		\$9.1	\$6.8	6,298	11,960				WAR	RANTY								
Data & Decision Sciences Building (D&DS)		\$79.0	\$58.9	120,000					V	(ARRANTY								
Corps Leadership & Military Science Building		\$52.0	\$37.9	65,428	8,449					W	ARRANTY							
New Upper Quad Residence Hall		\$42.0	\$32.0	56,650							WARRANTY							
Slusher Hall Repairs		\$7.5	\$5.6		38,000						WARRANTY							
Multi-Modal Transit Facility (Note 1)		N/A	N/A	13,606														
HITT Hall (Note 2)		\$85.0	\$65.5	101,000														
Building Envelope Improvements	(Note 3)	\$47.2	\$41.9	N/A														
Innovation Campus - Academic Building	(Note 2)	\$302.1	\$226.3	299,733														
Undergraduate Science Laboratory Building		\$90.4	\$69.5	102, 746														
Student Wellness Improvements		\$70.0	\$56.3		204,000													
Livestock & Poultry Research Facilities (Ph I) – Various	s Locations	\$25.3	\$18.2	129,100														
Life, Health, Safety, Accessibility, & Code Compliance	(Note 4)	\$10.4	\$3.9	N/A				WD										
Mitchell Hall (Replace Randolph Hall)	(Note 2)	\$292.3	\$229.3	285,500			WD											NOTE 5
New Business Building (Planning – Design Only)		\$8.0	TBD	104,000					PD		WD				CON	STRUCTION PHA	SE TBD	
Football Locker Room Renovations		\$5.9	\$4.1		4,200													
Phase I: Student Life Village (Planning – Design Only)		\$19.5	TBD	TBD														
	TOTALS	\$1,145.7		1,284,061	266,609						•							

LEGEND Design

 Construction
 SD = Schematic Design
 PD = Preliminary Design
 WD = Working Drawings

- NOTE 1 Non-Virginia Tech project
- **NOTE 2** Multiple GMPs results in design/construction overlap (fast track)
- NOTE 3 Building Envelope Improvements include four (4) phases: (1) Lane Stadium (Scheduled to complete in spring 2024) followed by (2) Torgerson, (3) Hahn, and (4) Inn at Virginia Tech which are currently unscheduled
- NOTE 4 Life, Health, Safety Acc. & Code Compliance includes three (3) phases: (1) Derring Steps Elevator Towers (Scheduled to complete in December 2024) followed by Green Link Priorities 2 & 3 which are currently unscheduled
- NOTE 5 Estimated construction completion of Mitchell Hall is December 2027

INNOVATION CAMPUS-ACADEMIC BUILDING

CM at Risk – State Authorized



Status

Construction 60% complete



Next Actions

• Anticipated completion in summer 2024



	Total Project	Construction				CY 2	2023			CY 2	2024			CY 2	2025	
Project Title	Budget	Budget (\$M) (Construction	New Const (GSF)	Renovation (GSF)	FY Q3	23 Q4	01	F Q2	Y24 Q3	Q4	Q1	۶۱ 2 و2	′25 Q3	Q4	FY Q1	26 Q2
	(\$M)	contract value)		. ,	Jan-Mar	Apr-Jun	Jul Se	o Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Innovation Campus - Academic Building (Not	2) \$302.1	\$226.3	299,733													

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

MITCHELL HALL (Replace Randolph Hall)

CM at Risk – State Authorized



Status

- Project fully authorized for construction by General Assembly
- Working Drawings underway
- CMaR pre-construction services contract is underway

Next Actions

• Begin development of early enablement package

		Total Project	Construction				CY 2	2023			CY 2	2024			CY 2	025	
Project Title		Budget (\$M)	Budget (\$M) (Construction contract value)	New Const (GSF)	Renovation (GSF)	FY Q3 Jan-Mar	23 Q4 Apr-Jun	()1 Jul Sep	FY Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	FY Q2 Oct-Dec	25 Q3 Jan-Mar	Q4 Apr-Jun	FY Q1 Jul-Sep	26 Q2 Oct-Dec
Mitchell Hall (Replace Randolph Hall)	(Note 2)	\$292.3	\$229.3	285,500			WD				·				I		NOTE 5
	00 0-6	tis Design DD	Deellerin - Deeler		Densie												

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings



DISCUSSION



CAPITAL PROJECT Status report

PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE OF THE BOARD OF VISITORS

DWYN TAYLOR Assistant Vice President for Capital Construction

AUGUST 29, 2023

1



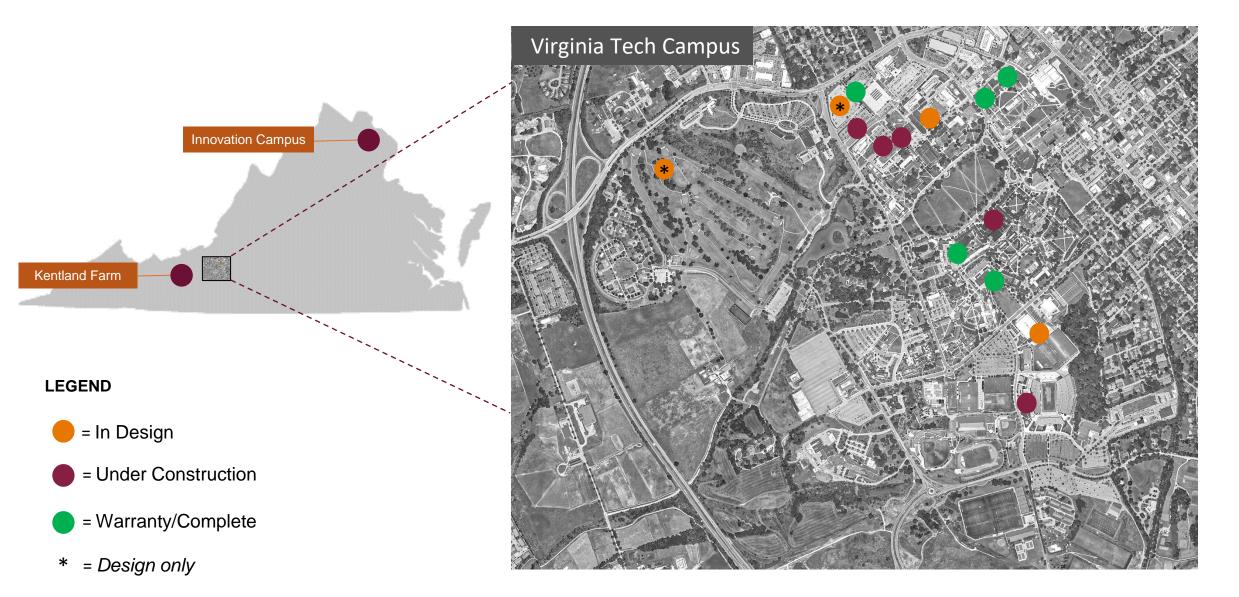
CAPITAL PROJECT PORTFOLIO

- 16 authorized projects -- active and complete (w/in 1-year warranty phase)
- Total value of ~\$1.1B
- Generates ~1.3M gross square feet (GSF) of new construction
- Renovates nearly 300K GSF of existing space



CAPITAL PROJECT PORTFOLIO







(Progressive) Capital Construction Executive Summary Date Prepared: 24 Jul 2023

		Total	Construction	New			CY	2023			CY	2024			CY2	2025	
Project Title		Project Budget (\$M)	Budget (\$M) (Construction contract value)	Const (GSF)	Renovation (GSF)	FY Q3 Jan-Mar	23 Q4 Apr-Jun	() Jul S	1 Q2	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	F) Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	FY Q1 Jul-Sep	Q2 Oct-Dec
Dietrick Renovation		\$9.1	\$6.8	6,298	11,960				WARRANTY								
Data & Decision Sciences Building (D&DS)		\$79.0	\$58.9	120,000					WARRANTY								
Corps Leadership & Military Science Building		\$52.0	\$37.9	65,428	8,449				W	ARRANTY							
New Upper Quad Residence Hall		\$42.0	\$32.0	56,650						WARRANTY							
Slusher Hall Repairs		\$7.5	\$5.6		38,000					WARRANTY							
Multi-Modal Transit Facility (Note 1)		N/A	N/A	13,606													
HITT Hall (Note 2)		\$85.0	\$65.5	101,000													
Building Envelope Improvements	(Note 3)	\$47.2	\$41.9	N/A													
Innovation Campus - Academic Building	(Note 2)	\$302.1	\$226.3	299,733													
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Livestock & Poultry Research Facilities (Ph I) – Various	s Locations	\$25.3	\$18.2	129,100													
Life, Health, Safety, Accessibility, & Code Compliance	(Note 4)	\$10.4	\$3.9	N/A				WD									
Mitchell Hall (Replace Randolph Hall)	(Note 2)	\$292.3	\$229.3	285,500			WD										NOTE 5
New Business Building (Planning – Design Only)		\$8.0	TBD	104,000					PD	WD				CONS	TRUCTION PHAS	SE TBD	
Football Locker Room Renovations		\$5.9	\$4.1		4,200												
Phase I: Student Life Village (Planning – Design Only)		\$19.5	TBD	TBD													
	TOTALS	\$1,145.7		1,284,061	266,609												

LEGEND Design

 Construction
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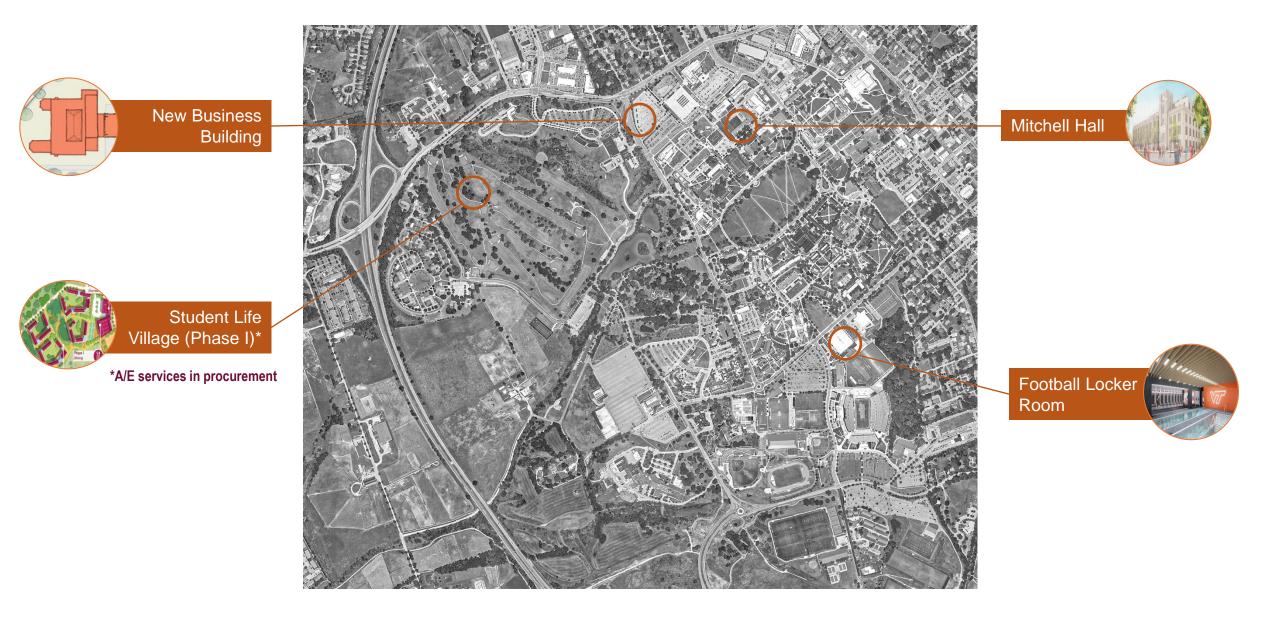


IN DESIGN



PROJECTS IN DESIGN





MITCHELL HALL (Replace Randolph Hall)

CM at Risk – State Authorized



ATTACHMENT G VIRGINIA TECH...

Status

- Project fully authorized for construction by General Assembly
- Working Drawings underway
- CMaR pre-construction services contract is underway

Next Actions

• Begin development of early enablement package

		Total Project	Construction				CY 2	2023			CY 2	2024			CY 2	025	
Project Title		Budget (\$M)	Budget (\$M) (Construction	New Const (GSF)	Renovation (GSF)	FY Q3	/23 Q4	0,1	F۱ 2	(24 Q3	Q4	Q1	FY Q2	'25 Q3	Q4	FY Q1	′26 Q2
		(51-1)	contract value)			Jan-Mar	Apr-Jun	Jul <mark></mark> Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Mitchell Hall (Replace Randolph Hall)	(Note 2)	\$292.3	\$229.3	285,500			WD										NOTE 5

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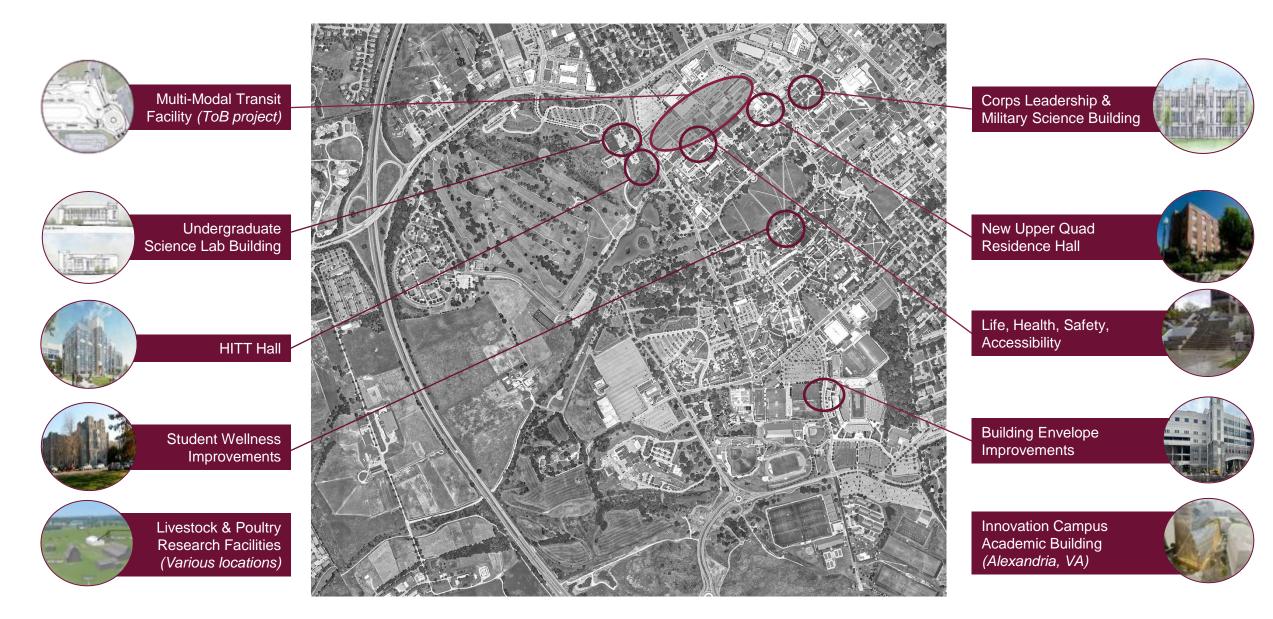


UNDER CONSTRUCTION



ACTIVE CONSTRUCTION PROJECTS





INNOVATION CAMPUS-ACADEMIC BUILDING



CM at Risk – State Authorized

Status

Construction 60% complete



Next Actions

• Anticipated completion in summer 2024



		Total Project	Construction				CY 2	2023			CY2	2024			CY 2	2025	
Project Title		Budget	Budget (\$M) (Construction	New Const (GSF)	Renovation (GSF)	FY 03	23 04	01	FY 02	/24 03	04	01	F۱ 02	25 03	04	FY 01	26 02
		(\$M)	contract value)	()	()	Jan-Mar	Apr-Jun	Jul Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Innovation Campus - Academic Building	(Note 2)	\$302.1	\$226.3	299,733													

 LEGEND
 Design
 Construction
 SD = Schematic Design
 PD = Preliminary Design
 WD = Working Drawings

Designer: Smith Group

Builder: Whiting-Turner



CONSTRUCTION METHODS

Design-Bid-Build (DBB):

- A/E completes full design
- Invitation For Bid (IFB) issued...contract awarded to lowest bidder

Construction Manager at Risk (CMaR):

- A/E completes full design
- Prospective CMaR's compete for project during early stage of design
- CMaR selected based upon "best value" during Schematic Design phase
- When final designs are complete, CMaR develops Guaranteed Maximum Price (GMP)

Design-Build (D/B):

- A/E completes partial design ("criteria docs")
- D/B teams (builder + A/E) compete for project and propose full price for project delivery
- Selection based upon "best value"
- D/B team completes design and executes construction



CAPITAL PROJECT STATUS REPORT

PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE OF THE BOARD OF VISITORS

DWYN TAYLOR Assistant Vice President for Capital Construction

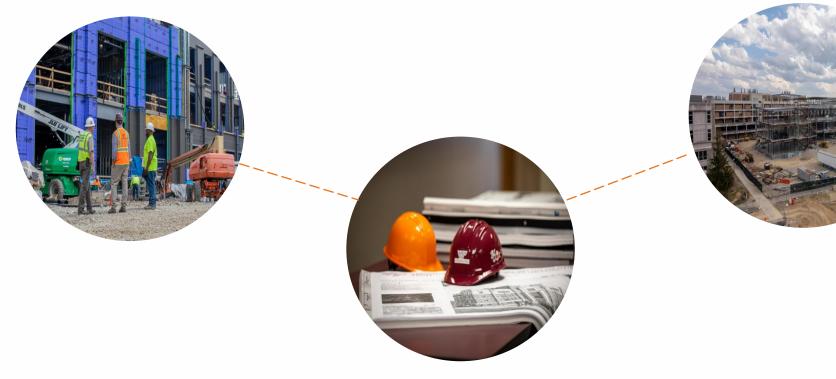
AUGUST 29, 2023

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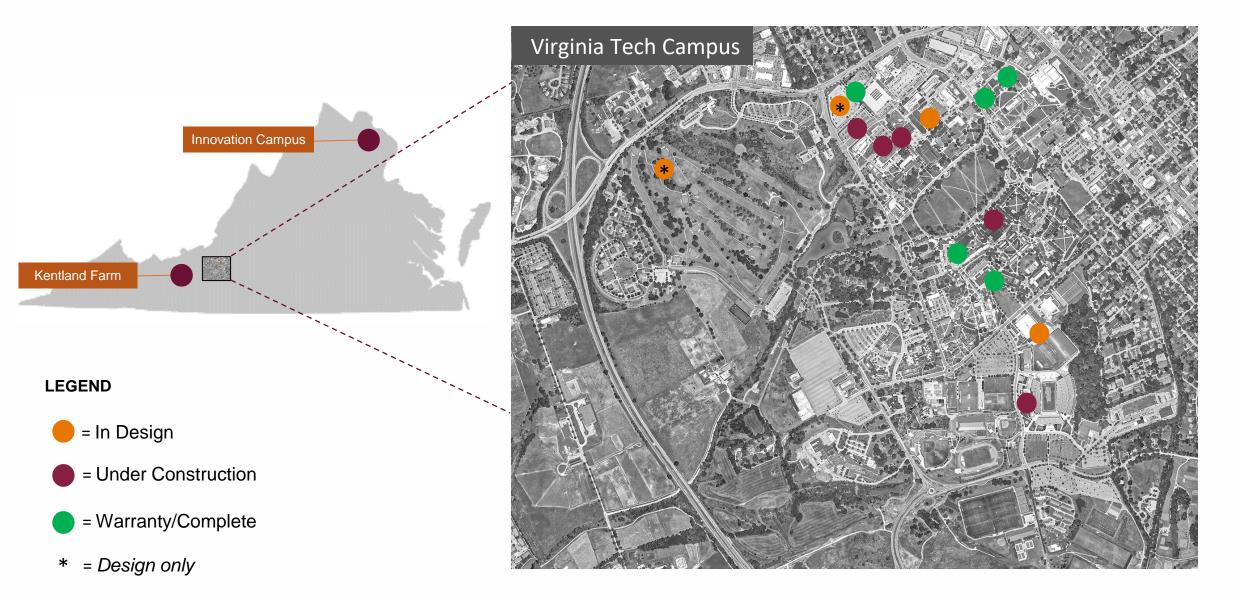
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CAPITAL PROJECT PORTFOLIO







(Progressive) Capital Construction Executive Summary Date Prepared: 24 Jul 2023

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Project Title		Project Budget (\$M)	Budget (\$M) (Construction contract value)	Const (GSF)	Renovation (GSF)	Q3 Jan-Mar	Q4 Apr-Jun	() Jul S	l iep	Q2 Oct-Dec	(24 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sap	Q2 Oct-Dec	(25 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	/26 Q2 Oct-Dac
Dietrick Renovation		\$9.1	\$6.8	6,298	11,960				WARR	ANTY								
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Life, Health, Safety, Accessibility, & Code Compliance	(Note 4)	\$10.4	\$3.9	N/A				WD										
Mitchell Hall (Replace Randolph Hall)	(Note 2)	\$292.3	\$229.3	285,500			WD											NOTE 5
New Business Building (Planning – Design Only)		\$8.0	TBD	104,000					PD		WD				CONS	STRUCTION PHAS	E TBD	
Football Locker Room Renovations		\$5.9	\$4.1		4,200													
Phase I: Student Life Village (Planning – Design Only)		\$19.5	TBD	TBD														
	TOTALS	\$1,145.7		1,284,061	266,609													

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

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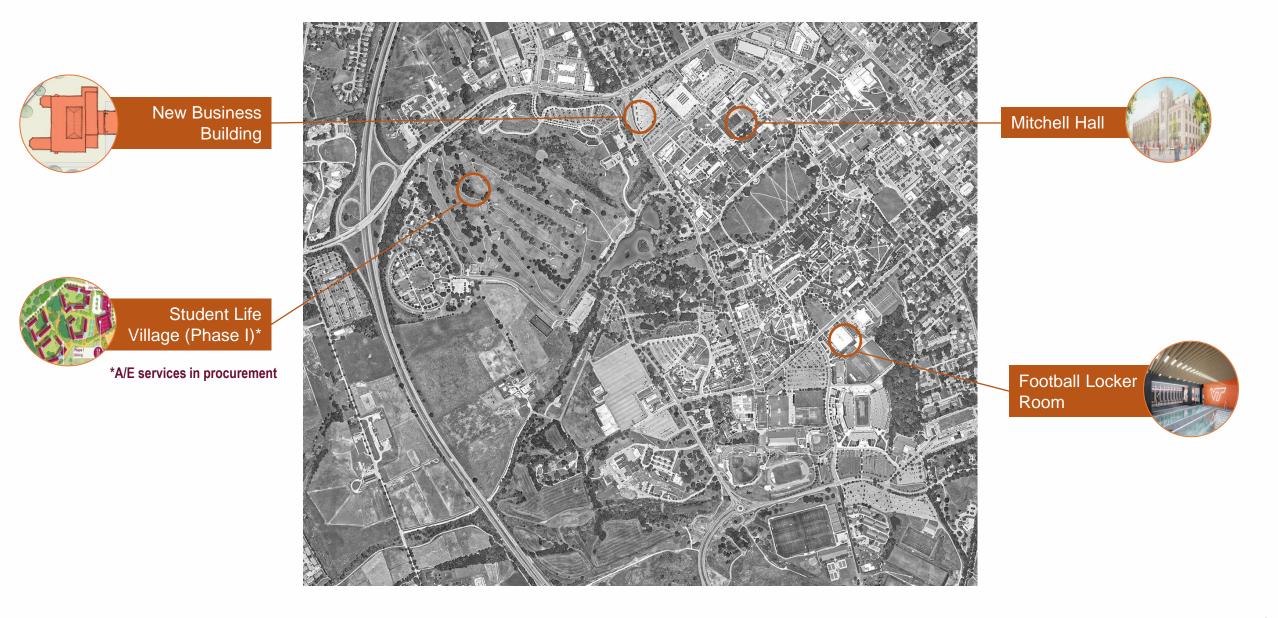


IN DESIGN



PROJECTS IN DESIGN





MITCHELL HALL (*Replace Randolph Hall*)

CM at Risk – State Authorized



ATTACHMENT G VIRGINIA TECH...

Status

- Project fully authorized for construction by General Assembly
- Working Drawings underway
- CMaR pre-construction services contract is underway

Next Actions

• Begin development of early enablement package

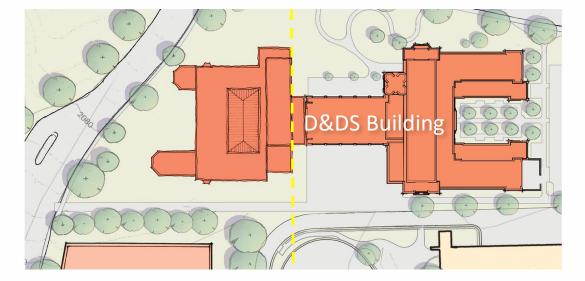
		Total Project	Construction				CYS	2023			CY 2	024			CY 2	025	
Project Title		Budget (\$M)	(Construction	New Const (GSF)	Renovation (GSF)	Q3 FY	Q4	ų1	Q2	(24 Q3	Q4	Q1	Q2 FY	25 Q3	Q4	Q1	26 Q2
		(0)	contract value)			Jan-Mar	Apr-Jun	Jul Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Mitchell Hall (Replace Randolph Hail)	(Note 2)	\$292.3	\$229.3	285,500			WD										NOTE 5
LEGEND Design Construction	SD = Schema	atic Design PD :	= Preliminary Desigr	WD = Workir	ng Drawings												

Builder: Skanska

PLANNING: NEW BUSINESS BUILDING

CM at Risk – BOV Authorized





Status

- Transitioning to Preliminary Design phase
- Standardized value management procedures underway
- CMaR preconstruction services contract is underway

Next Actions:

• Targeting BOV Construction Authorization in early 2024

	Total Project	Construction				CYS	2023			CY2	2024			CY 2	2025	
Project Title	Budget (\$M)	Budget (\$M) (Construction contract value)	New Const (GSF)	Renovation (GSF)	Q3 Jan-Mar	Q4 Apr-Jun	()1 Jul Sep	Q2 Oct-Dec	(24 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Doct-Dec	/25 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Y26 Q2 Oct-Dec
New Business Building (Planning-Design Only)	\$8.0	TBD	104,000				PO		WD					Constructio	n Phase TBD	
LEGEND Design Construction SD = Schem	atic Design PD :	= Preliminary Design	WD = Workir	ng Drawings												

FOOTBALL LOCKER ROOM RENOVATIONS

Design-Bid-Build – BOV Authorized





Status

• Working Drawings underway

Next Actions

• Complete designs and initiate construction procurement

	Total Project	Construction				CY	Y 2023				CY 2	2024			CY 2	2025	
Project Title	Budget (\$M)	(Construction contract value)	New Const (GSF)	Renovation (GSF)	Q3 Jan-Mar	Q4 Apr-Jun	(Jul	1 Sep	Q2 Oct-Dec	24 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Doct-Dec	/25 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	26 Q2 Oct-Dec
Football Locker Room Renovations	\$5.9	\$4.1		4,200													

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Builder: SkTBD

STUDENT LIFE VILLAGE – PHASE I

(Planning - Design Only)



TBD – BOV Authorized



Status

• Procurement of A/E for design services underway

Next Actions

• Finalize procurement of A/E and begin initial design

	Total Project	Construction				CY 2	2023			CY 2	024			CY 2	025	
Project Title	Budget	Budget (\$M) (Construction	New Const (GSF)	Renovation (GSF)	Q3 FY	23 Q4	01	Q2 FY	24 Q3	Q4	Q1	Q2 FY	25 Q3	Q4	Q1 FY	26 Q2
	(SM)	contract value)	. ,		Jan-Mar	Apr-Jun	Jul <mark>Sep</mark>	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Dct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Student Life Village - Phase I (Planning-Design Only)	\$19.5	TBD	TBD													

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Builder: TBD

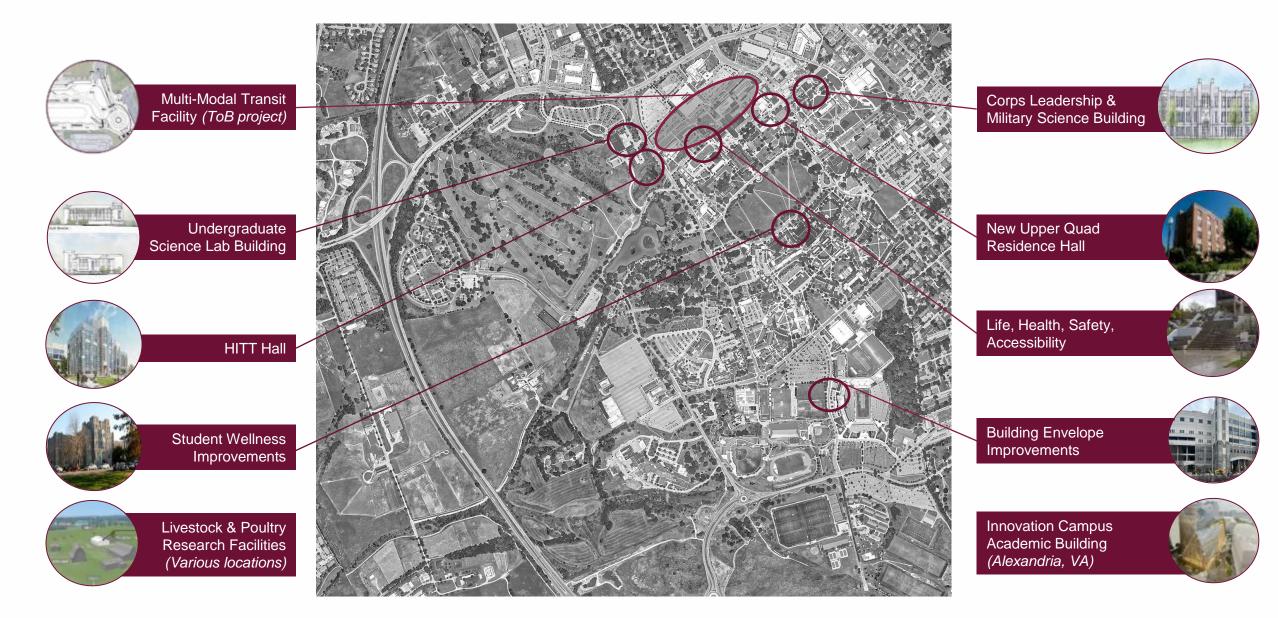


UNDER CONSTRUCTION



ACTIVE CONSTRUCTION PROJECTS





INNOVATION CAMPUS-ACADEMIC BUILDING



CM at Risk – State Authorized

Status

Construction 60% complete



Next Actions

• Anticipated completion in summer 2024



		Total Project	Construction				CY 2	2023			CYS	2024			CY 2	025	
Project Title		Budget	Budget (\$M) (Construction	New Const (GSF)	Renovation (GSF)	03 FY	23	01	62 F1	/24 03	04	01	62 FY	25 03	04	61 FY	26 Q2
		(SM)	contract value)	()	()	Jan-Mar	Apr-Jun	Ju <mark>l</mark> Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Innovation Campus - Academic Building	(Note 2)	\$302.1	\$226.3	299,733													

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Designer: Smith Group

Builder: Whiting-Turner

LIFE, HEALTH, SAFETY, ACCESSIBILITY, & CODE COMPLIANCE



Design-Bid-Build – State Authorized

Status

- Note: Multi-phase execution
- Phase 1: (Derring Steps Elevators) construction 15% complete



Next Actions

• Anticipated completion in spring 2024



	Total Project	Construction				CY 202	23			CY 2	024			CY 2	025	
Project Title	Budget (\$M)	Budget (\$M) (Construction contract value)	New Const (GSF)	Renovation (GSF)	FY23		01	02 FY	FY24 03 04		01	FY 02	25	04	FY 01	26 02
					Jan-Mar A	kpr-Jun	Jul Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Life, Health, Safety, Accessibility, & Code Compliance (Note 4)	\$10.4	\$3.9	N/A			1	VD									

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Builder: WM Jordan

BUILDING ENVELOPE IMPROVEMENTS

Design-Bid-Build – BOV Authorized



Status

- Envelope improvements planned for four buildings
- Construction on first building 30% complete



Next Actions

• First building targeted for completion winter/spring 2024



Project Title Note?right Budget (\$M) New Const (\$SF) New Const (\$SF) FY23 Q3 Q4 O11 Q2 Q3 Q4 O1 Q2 Q3 Q4 Q1 Q3 Q4 Q1 Q3 Q4 Q1 Q4 Q			Total Project Construction					CY 2	2023		CY 2024				CY 2025			
(SP) contract value) Jan-Mar Apr-Jun Jul Sep Oct-Dec Jan-Mar Apr-Jun Jul-Sep Oct-Dec Jan-Mar Apr-Jun Jul-Sep Oct-Dec	Project Title		Budget	Budget (\$M)	New Const (CSE)		FY 03		01	FY 02	/24	04	01	62 FY	25	04	FY 01	
Building Envelope Improvements (Note 3) \$47.2 \$41.9 N/A			(SM)		(00.)	(00.)		Apr-Jun	Jul Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	
	Building Envelope Improvements	(Note 3)	\$47.2	\$41.9	N/A													

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Builder: Carolina Restoration

STUDENT WELLNESS IMPROVEMENTS

CM at Risk – BOV Authorized



Status

Construction 42% complete



Next Actions

• Anticipated completion in July 2024



Project Title	Total Project Construction				CY 2023			CY					CY 2025			
	Budget (\$M)	(Construction contract value)	New Const (GSF)	Renovation (GSF)	Q3 Jan-Mar	Q4 Apr-Jun	01 Ju <mark>t</mark> Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	/25 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Q2 Oct-Dec
Student Wellness Improvements	\$70.0	\$56.3		204,000												

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Builder: Whiting-Turner

UNDERGRATUATE SCIENCE LAB BUILDING

CM at Risk – State Authorized

VIRGINIA TECH.

Status

Construction 40% complete



Next Actions

• Anticipated completion in June 2024



	Total Project	Construction Budget (\$M) (Construction contract value)		Renovation (GSF)		CY2	2023		CY 2024				CY 2025			
Project Title	Budget (\$M)		New Const (GSF)		FY2 Q3 Jan-Mar	Q4 Apr-Jun	(<mark>)</mark> 1 Jul Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Doct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	C1 Jul-Sep	/26 Q2 Oct-Dec
Undergraduate Science Laboratory Building	\$90.4	\$69.5	102,746													

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Builder: Skanska

HITT HALL CM at Risk – BOV Authorized

ATTACHMENT G VIRGINIA TECH.

Status

Construction 58% complete



Next Actions

• Anticipated completion in March 2024



	Total Project	Construction				CY	2023			CY 2024				CY 2025			
Project Title	Budget (SM)	Budget (\$M) (Construction contract value)	New Const (GSF)	Renovation (GSF)	FY2 Q3 Jan-Mar	23 Q4 Apr-Jun	0 <mark>1</mark> Jul <mark>i</mark> Sep	Q2 Oct-Dec	/24 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Doct-Dec	/25 Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Q2 Dct-Dec	
Hitt Hall (Note 2)	\$85.0	\$65.5	101,000								WAR	RANTY					

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Designer: Cooper Cary

Builder: WM Jordan

DATA & DECISIONS SCIENCE BUILDING



CM at Risk – State Authorized COMPLETE

Status

• Project complete



Next Actions

Close out project



Project Title	Total Project	Construction	New Const (GSF)	Renovation (GSF)	CY 2023				CY 2024				CY 2025			
	Budget (\$M)	(Construction contract value)			Q3 FY	Q4	01	Q2 FY	Q3	Q4	Q1	Q2 FY	Q3	Q4	Q1 FY	Q2
Dietrick Renovation	\$9.1	\$6.8	6,298	11,960	Jan-Mar	Apr-Jun	Jul Se	p Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Dietrick Renovation	55.1	50.0	0,290	11,960	إستعمالها	8		WARRANTY								

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Designer: Moseley

Builder: Kjellstrom & Lee

DIETRICK RENOVATION

(And Quillen Spirit Plaza) Design-Bid-Build– BOV Authorized COMPLETE

Status

• Project complete



ATTACHMENT G VIRGINIA TECH...

Next Actions

Close out project



Project Title	Total Project	Construction	New Const (GSF)	Renovation (GSF)	CY 2023				CY 2024				CY 2025			
	Budget (SM)	Budget (\$M) (Construction contract value)			FY23 Q3 Q4		01	Q2 FY	24 Q3	Q4	Q1	Q2 FY	25 Q3	Q4	Q1 FY	(26 Q2
					Jan-Mar	Apr-Jun	Ju <mark>l</mark> Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Dietrick Renovation	\$9.1	\$6.8	6,298	11,960			W	ARRANTY								

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Designer: Hanbury

Builder: Branch Builds

CORPS LEADERSHIP & MILITARY SCIENCE BUILDING



CM at Risk – BOV Authorized COMPLETE

Status

Project substantially complete and occupied



Next Actions

Complete site work and close out project



	Total Project	Construction				CY 20	23			CY 21	024			CY 2	025	
Project Title	Budget	Budget (\$M) (Construction	New Const (GSF)	Renovation (GSF)	FY23	04	01	62 FY	24 Q3	04	01	FY 02	25	04	FY.	26 02
	(SM)	contract value)	(001)	(001)		Apr-Jun	Jul Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Corps Leadership & Military Science Building	\$52.0	\$37.9	65,428	8,449				1	NARRANTY							

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

NEW UPPER QUAD RESIDENCE HALL



CM at Risk – BOV Authorized COMPLETE

Status

• Project substantially complete and occupied



Next Actions

• Finish site work and close out project



	Total Project	Construction				CY 2	2023			CY 2	2024			CY 2	2025	
Project Title	Budget (\$M)	(Construction	New Const (GSF)	Renovation (GSF)	Q3 FY:	23 Q4	01	Q2 FY	24 Q3	Q4	Q1	Q2 FY	25 Q3	Q4	Q1 FY	/26 Q2
	(311)	contract value)			Jan-Mar	Apr-Jun	Ju <mark>t</mark> Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
New Upper Residence Hall	\$42.0	\$32.0	56,650						WARRANTY							

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

LIVESTOCK & POULTRY RESEARCH FACILITIES (PHASE I)



Design-Bid-Build – State Authorized COMPLETE: EQUINE FACILITY & SWINE FACILITY



Poultry Facility



Swine Facility

Status

- Construction complete on bid packages #1 through #4
- Bid package #5 (3 new hay barns at

various locations and demo of

existing swine facility) in procurement

Equine Facility



Beef Facility

Next Actions

 Award bid package #5 and begin construction

	Total Project	iect Construction		Construction	Construction				CY 2	2023			CY 2	024			CY 2	2025	
Project Title	Budget (\$M)	Budget (\$M) (Construction	New Const (GSF)	Renovation (GSF)	Q3	23 Q4	Q1	Q2	/24 Q3	Q4	01	Q2 FY	25 Q3	Q4	Q1 FY	Q2			
	(0.1)	contract value)			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec			
Livestock \varTheta Poultry Research Facilities (Ph I) – Various Locations	\$85.0	\$65.5	101,000																

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings

Builder: (Various)

MULTI-MODAL TRANSIT FACILITY

Design-Bid-Build – Town of Blacksburg (ToB)

Status

Construction 67% complete



Next Actions

• Anticipated completion in fall 2023



Project Title Budget Budget (SM) Budget (SM) (Construction contract value) New Const (GSF) Renovation (GSF) FY23 Q3 Q3 Q4 Jan-Mar PY26 Q1 Q1 Q2 Q3 Q4 Q4 Q1 Q1 Q2 Q3 Q4 Q4 Q1 Q2 Q3 Q3 Q4 Q4 Q1 Q2 Q3 Q3 Q4 Q4 Q4 Q1 Q2 Multi-Modal Transit Facility (Note 1) N/A N/A 13,606 Image: Construction Contract value) Image: Construction Contract value) <td< th=""><th></th><th></th><th>Total Project</th><th colspan="2">tal Project Construction</th><th colspan="2"></th><th colspan="2"></th><th></th><th></th><th></th><th></th><th></th><th>CYS</th><th>2023</th><th></th><th></th><th>CY 2</th><th>2024</th><th></th><th></th><th>CY 2</th><th>2025</th><th></th></td<>			Total Project	tal Project Construction											CYS	2023			CY 2	2024			CY 2	2025	
	Project Title		Budget			Q3	Q4	(j1 Jul Sen	Q2	Q3		Q1	Q2	Q3	Q4 Acc-lun	Q1	Q2								
	Multi-Modal Transit Facility	(Note 1)	N/A	N/A	13,606																				

LEGEND Design Construction SD = Schematic Design PD = Preliminary Design WD = Working Drawings



DEFINITIONS

- State Authorized: Authorized and funded (whole or in part) by the Virginia General Assembly
- **BOV Authorized:** Authorized and funded by the Virginia Tech Board of Visitors
- Schematic Design Phase = 0% to approx 20% design complete
- **Preliminary Design Phase =** Approx 20% to approx 50% design complete
- Working Drawing Phase = Approx 50% to 100% design complete

• **GMP** = Guaranteed Maximum Price



CONSTRUCTION METHODS

Design-Bid-Build (DBB):

- A/E completes full design
- Invitation For Bid (IFB) issued...contract awarded to lowest bidder

Construction Manager at Risk (CMaR):

- A/E completes full design
- Prospective CMaR's compete for project during early stage of design
- CMaR selected based upon "best value" during Schematic Design phase
- When final designs are complete, CMaR develops Guaranteed Maximum Price (GMP)

Design-Build (D/B):

- A/E completes partial design ("criteria docs")
- D/B teams (builder + A/E) compete for project and propose full price for project delivery
- Selection based upon "best value"
- D/B team completes design and executes construction

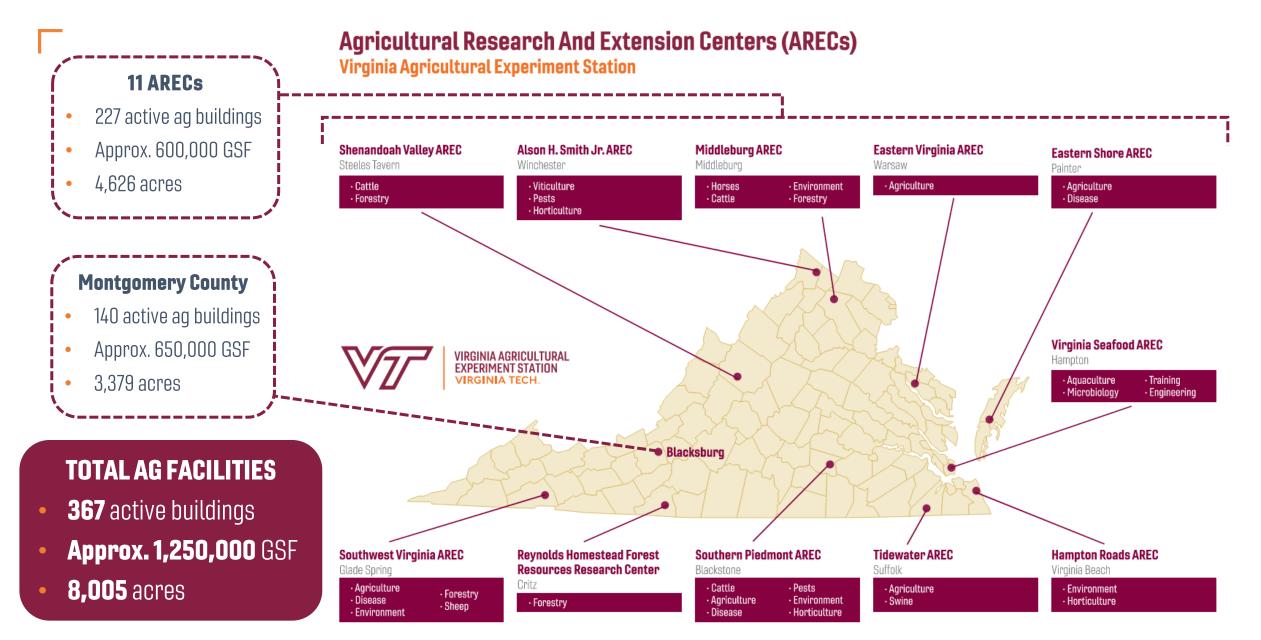


UPDATE ON AGRICULTURAL FACILITIES

ALAN L. GRANT, PH.D. DEAN OF THE COLLEGE OF AGRICULTURE AND LIFE SCIENCES

August 29, 2023

WHERE ARE VIRGINIA TECH'S AGRICULTURAL FACILITIES?



NON-CAPITAL PROJECT PROGRESS - COMPLETED



Tidewater AREC Entomology Lab Heat Pump Replacement



Middleburg AREC Employee House 816 Heat Pump Replacement



Hampton Roads AREC Chiller Replacement





Southern Piedmont AREC Road and Parking lot Repaying



Alphin-Stuart Livestock Arena Parking Lot Paving

NON-CAPITAL PROJECT PROGRESS

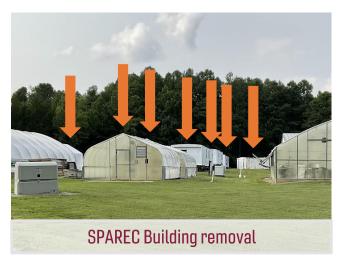
Key Projects In Progress

- Hampton Roads AREC Exterior Signage installation (5 signs)
- Removal of 7 unneeded structures from Southern Piedmont AREC
- Eastern Shore AREC Lab 08B Renovation - Design
- Southern Piedmont AREC Lab Freezer Backup Generator; Packhouse Restroom Air Conditioning; Greenhouse cooling system experiment
- Sheep Barn and Beef Barn Structural Repairs

17 projects in CONSTRUCTION 16 projects in DESIGN 16 projects in PLANNING



ESAREC Lab 08B – Future Entomology Lab





CAPITAL PROJECT PROGRESS - CONSTRUCTION

LIVESTOCK AND POULTRY RESEARCH FACILITIES, Phase 1, Bid Package Updates:

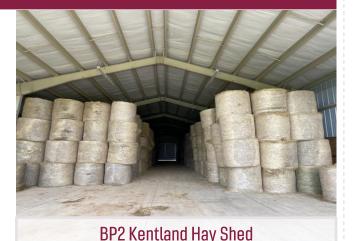
- <u>BP1Swine</u>: Complete. Animals planned to arrive in early October.
- <u>BP 2 Beef Nutrition (99%) and Kentland Hay Shed (100%)</u>: Concrete repair and squeeze chute motor pending completion.
- <u>BP 3 Turkey and Broiler Grow-out Facilities:</u> Nearly complete. Equipment purchase ongoing.
- <u>BP 4 Equine and Equipment Storage:</u> Complete. Animals moved in July!
- <u>BP 5 Three Hay Sheds and Final Demolition</u>: Bidding in progress. 18+ month project duration.

OCCUPIED NEW FACILITIES









CAPITAL PROJECT PROGRESS - PLANNING

Ag	ency 229 Six-year Capital Outlay Plan for 2024-2030	352,300 GSF	\$205.9 M
1.	Improve Center Woods Complex (CNRE)*	25,900 GSF	\$14.7 M
	New research labs, research support spaces, equipment storage a of Fish and Wildlife Conservation. Demolish 12 existing structures		Department
2.	AREC Improvements, Phase 1*	65,600 GSF	\$25.2 M
	Renovation of three existing facilities and addition of eight new f Southern Piedmont ARECs. Project will increase laboratory resea capacity, research greenhouse space, housing capacity, and impr	rch capacity, field	research
З.	Replace Plant and Animal Facilities at Glade Road	64,200 GSF	\$41 M
4.	HABB-II Plant and Environmental Sciences Research Facility	94,000 GSF	\$91 M
5.	Renew Animal and Livestock Facilities, Phase 2	102,600 GSF	\$34 M
*Cap	ital Budget Request submitted to State, June 2023		
	Six-Year Capital Outlay Plan Development September – February Board Plan Review & Approval March Capital Budget Submission to Sta June		bital Budget nd Approval
	Detailed project work Board Ratification of Pla	in 🔪	





Technology and Connectivity

• AREC and VCE Network Equipment Upgrade and Expansion Project

- Installations have started and will continue for much of the year
- Five ARECs already upgraded with a total of 20 new switches and 80 new wireless access points
- Over 85 percent of the VCE offices have been completed
- AREC audiovisual upgrades
 - Phase I (larger ARECs) complete
 - Phase II is now complete. This phase focused on improving capabilities at some smaller ARECs (Eastern Shore, Eastern Virginia, Middleburg, and Shenandoah Valley) and continued enhancements to larger offices



INTRODUCTION

Mary Burrows, Ph.D.

Director of Virginia Agricultural Experiment Station CALS Associate Dean for Research

- Former Assoc. Dir. of Montana AES and Research Development
- 17 years as Extension Plant Pathologist, Montana State Univ.
- Dir. of Schutter Diagnostic Lab, Regional Pulse Crop Diagnostic Lab, IPM Program
- Montana State University
- Ph.D. Plant Pathology, Univ. of Wisconsin-Madison
- B.A. Biology, Minnesota State University - Moorhead

	PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	N PROJECT STATUS
PROJECTS							
rough August 15, 2023 OJECTS IN CONSTRU	CTION						
Improv	e Kentland Facilities, Phase II	Applied Reproduction Facility (APR): 4,510 SF barn at Vet-Med for palpation and breeding instruction. Bovine Extension, Teaching and Research (BETR) Facility: 3,500 SF classroom building and 5,100 SF demonstration arena at livestock center on Plantation Road. Metabolic Research Laboratory (MRL): 11,330 SF animal	\$12,463,000	Capital Outlay	Spectrum	Fall 2020	All projects have reached substantial complet the Metabolic Research Lab is ongoing.
		laboratory at the Dairy Center at Kentland Farm. 21,698 SF, 3-story building to replace existing aging and structurally unsound facility in Hampton, Virginia with			Snyder, CPPI RRMM		Certificate of Occupancy has been received.
New Vi	rginia Seafood AREC Building	state-of-the-art aquaculture research and extension facilities. Facility owned and developed by Virginia Tech Foundation.	\$9,260,000	Various -	E.T. Gresham	April 2022	Primary commissioning complete. Installation facility.
		Pkg 1: New Swine Center at Kentland Farm.			Spectrum		
Livestock and	Poultry Research Facilities, Phase I	Pkg 2: New Beef Nutrition Facility & Hay Shed at Kentland Farm Pkg 3: New Broiler &Turkey Grow-out facilities at the Turkey Research Center (Glade Rd.) Pkg 4: New Equitation Barn & Equipment Storage Building at Livestock Center (Plantation Rd.) Pkg 5: 3 New Hay Sheds at Smithfield Horse Center, Fields west of US 460, and Heth Farm plus demolition of existing swine center	\$31,074,000	Capital Outlay	Pkg 1: SIMCON Pkg 2: CPPI Pkg 3: CPPI Pkg 4: Clark Nexsen Pkg 5: TBD	Packages 1-4: Summer 2023 Packages 5: TBD	Packages 1-3 are nearly complete. Package Occupancy to occur over summer and fall. Packages 5: Package 5 bidding is in progress.
JECTS IN DESIGN							
	(none)						
JECT INITIATION / P	LANNING STAGE						
2024-20	130 6-Year Capital Outlay Plan	Capital budget requests for five projects: CNRE Center Woods Improvements, System-Wide AREC Improvements Phase I, Glade Road Relocation, Human and Agricultural Biosciences Building II, and Livestock		Capital Outlay	TBD	ТВD	Following approval of the 2024-2030 Capital underway for selected projects. Two submitte
2024 20		and Poultry Research Facilities, Phase II	\$213,000,000	Capital Outly	TBD		future requests.
System-Wi	de AREC Improvements, Phase I	Renew and expand aging and deteriorating AREC facilities. Phase 1 project to address entirety of capital	\$25,200,000	Capital Outlay	TBD	твр	Phase 1 capital budget request submitted Jur
		renewal needs at Eastern Shore and Southern Piedmont ARECs.		. ,	TBD		
Replace Plant	and Animal Facilties at Glade Road	Relocate existing facilities away from the Glade Road Research Facility.	\$41,000,000	Capital Outlay	TBD	твр	Reviewing program and budget with CPIF for
					TBD		
Plant & Animal En	vironmental Sciences Reasearch Facility (HABB-II)	Construct new research lab facility for the School of Plant and Environmental Sciences to co-locate numerous research teams in one location with modernized facilities to focus on studying climate change.	\$91,000,000	Capital Outlay	EYP TBD	TBD	Re-programming effort completed with a \$53
TAL PROJECTS Dugh August 15, 2023							
DJECTS COMPLETED	SINCE LAST REPORT						
	<u>r Projects (<\$25,000 each):</u> e Housing Outbuilding Repairs	Repairs and painting exterior storage sheds at employee housing on Plantation Road.	\$31,000	CALS / VAES	-	Summer 2023	Complete
	C House 816 Heat Pump Replacement	Replace failed heat pump.			-		
	n Chuart na Ilina lat sanis	Paving over existing gravel parking area to reduce annual maintenance, solve drainage problems, expand		CALC	-	NA 2022	Complete
Alphi	n-Stuart parking lot paving	number of spaces, and provide all-weather parking surface. Heavy-duty asphalt section to be installed for possible future bus turnaround.	\$241,000	CALS	Blackstone	May 2023	Complete

College of Agriculture Life Sciences (CALS) Projects Status Report BUILDINGS AND GROUNDS COMMITTEE August 29, 2023

npletion and have certificate of occupancy. Minor corrective work at

ed. Remaining punch list and change order items are complete. ation of final specialty equipment in progress. City has demolished old

kage 4 is 100% complete. Priority 1 Equipment buy-out is complete. I. ress.

oital Outlay Plan by the Board of Visitors, program and cost validation is mitted for state funding consideration summer 2023. Others held for

June 2023.

F for future budget submission

a \$53.5 M construction target. Draft Feasibility report is under review.

PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
Tidewater AREC Entomology Lab Heat Pump Replacement	Existing heat pump is failing and must be replaced.	\$11,000	Maintenance Reserve	-	- June 2023	Complete
		\$11,000		Comfort Systems	June 2025	Complete
Hampton Roads AREC Chiller Replacement	Existing chiller failed and must be replaced before cooling season.	\$116,000	Maintenance Reserve	Virginia A&E	– Summer 2023	Complete
		\$110,000		JRC Services	Summer 2025	
Southern Piedmoent AREC Roadway and Parking Lot Repaying	Existing main parking lots (3) and primary internal roadways are deteriorating and in need of repair.	\$147,000	CALS / VAES	-	– Summer 2023	Complete
Southern reamoent Aree Roadway and Farking Lot Repairing	Existing main parking lots (3) and primary internal roadways are deteriorating and in need of repair. Approximately 1,300 square feet of milling and 8,400 square yards of 2-inch asphalt overlay required.	\$147,000		Finley Asphalt and Concrete	50111111212025	
PROJECTS IN CONSTRUCTION						
<u>Minor Projects (<\$25,000 each):</u> Reynolds Homestead FRRC Exterior Repairs Shenandoah Valley AREC Working Pens Middleburg AREC Laundry Hookup	Repair deteriorating eaves and trim on main AREC building. Installation of new working pens and open shed. Washer and dryer connections for one building.			-		
Middleburg AREC Freeze Damage Repairs Hampton Roads AREC Water Heater Installation Southwest Va. AREC Ram Barn Shed Extension	Repairs in 812 Annex due to frozen pipes bursting during holiday break. Add supplemental water heater to meet usage demands. Extend existing lean-to shed for additional feed pens, bunk space, holding pens and loadout.	\$111,000	CALS / VAES	Multiple	- Ongoing	In Progress
	Installation of 2 new exterior signs at each AREC with refreshed design to match current branding.	¢01.000		-		Signage installation complete at Tidewater, Southwest Virginia, Alson H. Smi
AREC Exterior Signage Upgrades	Installation of 2 new exterior signs at each AREC with refreshed design to match current branding.	\$81,000	CALS / VAES	Westview, Gropen		Middleburg, Southern Piedmont, Shenandoah Valley, and Eastern Shore ARE pending at Hampton Roads and Reynolds Homestead.
Beef Barn Repairs	Exterior and interior demolition followed by the installation of new roofing, hay loft flooring, doors, windows	\$1,064,000	Maintenance Reserve	HDH, FEA		Construction in progress. Roofing and lighting replacement complete. Hay lo Initial post and beam replacements complete. Additional structural deteriora
	and lighting. This work was originally included in LPRF Phase 1, but removed due to scope concerns.	\$1,004,000		Thor, SRC, Lilly		construction requiring additional analysis and extension of project schedule.
Tidewater AREC - Water system repair	Water line from well to main office complex is failing in multiple locations and requires frequent repairs, creating water quality concerns. Project is to connect to public water system with 2-inch water line, add		Maintenance Reserve	-		City water line is complete to new meter. New water line from meter to buli
	backflow preventer, and re-connect non-potable water line to well for irrigation purposes.		/ CALS	Lewis Construction		and new non-potable irrigation line to be installed fall 2023.
Prices Fork Quarantine Lab Emergency Generator	Installation of new backup generator for operational reliability at Entomology Quarantine Facility at Prices	\$66,000	CALS	Gibson Engineering	– Summer 2023	Generator has been received and installation is in progress.
	Fork Research Center.			Davis H. Elliott		
Prices Fork Quarantine Lab Autoclave installation	Installation of new 3-phase electric service and new autoclave for more reliable sterilization process.	\$165,000	CALS	5 Design	- Fall 2023	Work is scheduled to begin in August.
				Kesler		
Turfgrass Research Center Equipment Shed	New 1,440 square foot open-front pole shed at the Turfgrass Research Center for weather-protected storage	\$65,000	CALS	-	- TBD	Site has been prepared. New shed is being fabricated for installation in the fa
	of equipment.			Superior		
Alson H. Smith Jr. AREC Chilled Water System repairs	Existing chillers are leaking and utilize a refrigerant that is no longer readily available. System condition is	\$438,000	Maintenance Reserve	-	– Summer 2024	Temporary chiller installed mid-May. 1 year +/- lead time for permanent uni
	n H. Smith Jr. AREC Chilled Water System repairs deteriorating and in need of major repair and replacement.			Blauch Brothers		

College of Agriculture Life Sciences (CALS) Projects Status Report BUILDINGS AND GROUNDS COMMITTEE August 29, 2023

rater, Southwest Virginia, Alson H. Smith Jr., Eastern Virginia, andoah Valley, and Eastern Shore ARECs. Final design and fabrication Ids Homestead.
lighting replacement complete. Hay loft flooring replacement complete. mplete. Additional structural deterioration discovered during rsis and extension of project schedule.
er. New water line from meter to buliding installed. Backflow Preventer be installed fall 2023.
llation is in progress.
eing fabricated for installation in the fall.
. year +/- lead time for permanent unit.

PROJ

	PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
Ol	ECTS IN DESIGN / PERMITTING						
	<u>Minor Projects (<\$25,000) each:</u> Tidewater AREC Peanut Storage Shed Eastern Virginia AREC RTK Tower Installation Tidewater AREC RTK Tower Installation Southern Piedmont Lab Freezer Generator Installation Middleburg AREC House 815 and 818 HVAC Repl.	960 square foot prefabricated structure for field storage of harvested peanuts. Power and data connections for new GPS and Wi-Fi tower. Power and data connections for new GPS and Wi-Fi tower. Add backup power generator to serve circuits for critical lab freezers. Replace aging HVAC in two employee houses.	\$128,000	CALS / VAES	-	- Various	In Progress
	Shenandoah Valley AREC Security Camera Installation Eastern Shore AREC Fume Hood Replacement Hampton Roads AREC Fume Hood Replacement Southern Piedmeont AREC Fume Hood Replacement Tidewater AREC Security System Installation	Addition of security cameras to monitor historic area. Replace an aging fume hood in Soils Wet Lab. Replace an aging fume hood in Horticulture Lab. Replace an aging fume hood in Lab 104. Install security cameras to monitor parking areas.	\$128,000	CALS / VAES	Multiple	Various	in Flogress
	Heth Farm Shed and Silo Demolition	Demolish two structures that are currently unsafe and operationally unnecessary	TBD	CALS	TBD	- TBD	Lead and asbestos study complete. Obtaining
	neth rann shed and she benontion	Demonsh two structures that are currently unsafe and operationally unnecessary		CALS	TBD		Lead and aspestos study complete. Obtaining
	Judging Pavilion Repairs	Exterior and interior demolition followed by installation of new flooring, doors, windows, HVAC system, lighting, a covered walkway and exterior paint. This work was originally included in LPRF Phase 1, but		Maintenance Reserve	TBD	- TBD	Scope review with University Building Officia
	Judging Pavilion Repairs	removed due to scope concerns.	Ş302,000	Maintenance Reserve	TBD		eligibility. Project deferred to 2023.
	Campbell Arena Repairs	New enclosure of the existing open-air steel structure constructed of metal panel siding over steel girts and		Maintenance	Hughes	- TBD	A/E Proposal development underway.
		posts. This work was originally included in LPRF Phase 1, but removed due to scope concerns. Existing equitation barn to be repurposed for small animal research and extension activities.	\$93,000	Reserve, CALS	TBD		A/E Proposal development underway.
	Middleburg AREC Stable exterior repairs	Existing roof and windows are leaking. Several stalls are unusable due to leaks. Several windows are rotten.	\$100,000	Maintenance Reserve	5 Design TBD	- TBD	Drawings approved. Bidding in progress.
					5 Design		
	Middleburg AREC Clinic/Admin Building HVAC repairs	Two existing heat pump systems have failed during critical and ongoing research projects.	\$40,000	Maintenance Reserve	TBD	- TBD	Drawings approved. Awaiting final funding ap
					HDH		
	Tidewater AREC Main Office and Lab Roof Replacement	Existing roof is leaking causing damage to main lobby interior walls and classroom area.	\$78,000	Maintenance Reserve	TBD	- TBD	Drawings approved. Awaiting final funding ap
		Repair/replace siding and five deteriorated lean-to equipment storage sheds attached to four tobacco curing			Thompson & Litton		
	Southern Piedmont AREC - Curing Building Repairs	barns (0893A, 0893B, 0893C, 0893D)	\$51,000	Maintenance Reserve	TBD	- TBD	Drawings approved. Awaiting final funding a
	Southern Diadmont ADEC Creenhouse Controls Ungrade	Minor project to make newer connections for new Smart Creenbourg controls in two greenbourg ranges	TBD	CALS	-	- TBD	Now controls againment received Socking in
	Southern Piedmont AREC Greenhouse Controls Upgrade	Minor project to make power connections for new Smart Greenhouse controls in two greenhouse ranges.		CALS	Pucket Greenhouses, Growlink		New controls equipment received. Seeking ir
	Shoop Dorp Sturgtural Dopairs	Additional structure required to support weight of how in left above	TDD	Maintonance Decorre	Prosim	TRD	Drawings approved Didding in progress
	Sheep Barn Sturctural Repairs	Additional structure required to support weight of hay in loft above.	TBD	Maintenance Reserve	TBD	- TBD	Drawings approved. Bidding in progress.
	NI&S Communication antennae installation	New anntennae to be installed at the Beef Barn and HABB1 for enhanced coverage along Stroubles Creek	TBD	TBD	-	- TBD	Permitting and equipment procurement in p
		research bed.	שטו		ТВD		Permitting and equipment procurement in pr
	Eastern Shore AREC Lab 08B Renovation	Upfit of existing space to accommodate new research lab.	\$100,000	CALS	TBD TBD	- TBD	A/E procurement underway.
					1	1	<u> </u>

College of Agriculture Life Sciences (CALS) Projects Status Report BUILDINGS AND GROUNDS COMMITTEE August 29, 2023

ining quotes and permits for demolition.

ficial (UBO) is necessary to resolve code requirements and funding

ing approval to proceed with bidding.

ing approval to proceed with bidding.

ing approval to proceed with bidding.

ng installation quotes.

in progress.

	PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
PROJ	ECT INITIATION / PLANNING STAGE						
	Southern Diadmoont ADEC Irrigation Dand Dam Danairs	Discharge pipe through existing embankment has failed due to corrosion of bottom of the barrel. Pipe needs	TBD		TBD	- TBD	Dam is stable and showing no signs of seepag
	Southern Piedmeont AREC Irrigation Pond Dam Repairs	to be replaced and dam reconstructed in between growing seasons.		CALS / VAES	TBD		Dept. of Conservation and Recreation (DCR) D reports filed with DCR via VT Site and Infrastr
		CALS is experiencing significant and growing land pressure to meet nutrient management plan requirements, which would be greatly eased by the proposed compost facility. This initiative also has an extremely high			Coker Composting & Consulting, Reduction in Motion		Zara Wasta consultant toom undating plan a
	Compost Facility (to support main campus & surrounding farm	s) level of student support as well as potential partnerships with Dining Services, Athletics and Facilities. Project is included in 228-2 Capital Budget Request, but is a high priority for separate, earlier funding, if possible, due to regulatory risk exposure from limited manure storage during winter months.		TBD	TBD	TBD	Zero Waste consultant team updating plan, as composting methods.
	Turkey Farm Processing Building Repair	Interior Demolition followed by the installation of new cold-formed steel stud interior partitions, new doors and a window, fiberglass reinforced plastic paneling and epoxy painted floors. This work was originally		Maintenance Reserve	TBD	- TBD	Scope and budget development.
		included in LPRF Phase 1, but removed due to scope concerns.	\$140,000		TBD		
	Moore Farm Barn 0501 Repairs	This highly visible and prominent barn is for many purposes such as lambing of sheep, loafing facility, hay bale storage, emergency storage for weather-affected crops, and equipment and parts storage. The condition of		Maintenance Reserve	TBD	- TBD	Scope and budget development.
		the roof and siding is poor, failing to provide the necessary weather protection. Without mitigation soon, the condition will deteriorate to the point of loss.			TBD		
	Maara Farm Shad 0500 Danaira	This hay shed was built in the 1950's and received heavy use for that purpose. Over the years its condition has continued to worsen and recent wind and snow storms have accelerated the deterioration. In order to execute research projects utilizing recently renovated fields, the Beef Cattle unit now needs to utilize this		Maintanana Dagama	TBD	TRD	Compound budget development
	Moore Farm Shed 0508 Repairs	shed as a working facility for cattle. This would involve pouring a concrete floor and moving in cattle working equipment. However, the structural condition of this facility is poor and should be addressed prior to additional use. It may be more cost effective to rebuild than to repair this structure.		Maintenance Reserve	TBD	- TBD	Scope and budget development.
	Alege II. Creith ADEC. Densis require and realize		¢50.000		TBD	TRD	
	Alson H. Smith AREC - Repair paving and parking	Existing asphalt parking lot and drives are deteriorating and in need of repaving.	\$56,000	Maintenance Reserve	TBD	TBD	Scope and budget development. Construction
	Tidewater AREC - Repair paving and parking	Existing asphalt parking lot and drives are deteriorating and in need of repaving.	\$150,000	Maintenance Reserve	TBD	- TBD	Scope and budget development. Construction
			\$130,000		TBD		
	Southern Piedmeont AREC Modualar Housing	Addition of a new 4-bedroom modular employee housing unit at Southern Piedmont AREC.	TBD	CALS / VAES	TBD	- TBD	Scope and budget development.
					TBD		
	Middleburg AREC - Exterior Repairs	Siding on several buildings is in need of repair/replacement due to advanced age: Annex (0812), Frame Beef Barn (0807), Milking Barn and Milk House (0809), Loafing Barn (0810), Clinic/Admin Building (0823), Stable (0824). 8 run-in sheds (0799) are deteriorating and in need of repair or replacement. Corn House and		Maintenance Reserve	TBD	твр	Scope and budget development.
		Machinery Shed (0803) is in need or structural repairs. Basement of Annex (0812) floods and needs drainage corrections.			TBD		
	Shenandoah Valley AREC - Repair/Replace Sheep Barn	Sheep Barn (0854) has rotten posts at ground level and leaking roof. The building should be evaluated for	\$76,000	Maintenance Reserve	TBD	твр	Scope and budget development.
		repair or replacement.			TBD		
	Shenandoah Valley AREC - Renovate Carriage House	Renovate Carriage House to add two single-user public restrooms and welcome center area for visitors to the McCormick Farm.	TBD	CALS / VAES	TBD	- TBD	Scope and budget development underway. St property for Department of Historic Resource
					TBD		
	Smithfield Equine Complex	Develop new facilities for Equine Complex on Plantation Road including covering outdoor arena, add bleachers, restrooms, announcer stand, fencing, quarantine facility.	TBD	Private	TBD	- TBD	Scope and budget development.
					TBD		
	Southern Piedmont AREC New Storage Shed	Erection of a new 20'x50' metal storage building on an existing concrete slab.	\$12,000	CALS	TBD	- TBD	Space request and design review being initiat
					TBD		

PR

College of Agriculture Life Sciences (CALS) Projects Status Report BUILDINGS AND GROUNDS COMMITTEE August 29, 2023

epage around pipe.Temporary measures are in place, approved by Va. CR) Dam Safety Engineer. Weekly inspections being conducted and rastructure Development. Scope of full repair project under review.

an, assessing current waste stream, and evaluating alternate

action funds requested for FY 2024.

action funds requested for FY 2024.

ay. Study will be necessary to address development within historic purces.

nitiated.

	PROJECT NAME	PROJECT DESCRIPTION	ESTIMATED TOTAL PROJECT COST	FUND SOURCE	PROJECT TEAMS	CONTRACT COMPLETION DATE	PROJECT STATUS
			<u> </u>	Maintenance	TBD		
	Smithfield Equine Classroom Renovations, Phase 2	Completion of building envelope repairs, restroom repairs, accessibility improvements.	\$110,000	Reserve, CALS	TBD	TBD	Scope and budget development.
	N TECHNOLOGY (IT) PROJECTS ugh August 15, 2023. New information is in bold.						
	CTS COMPLETED						
	Eastern Virginia AREC Field-level Wireless (SmartFarm Project)	Installation of new technology, similar to Wi-Fi but with better exterior coverage and security management, in fields at Eastern Virginia AREC to study the effectiveness of this equipment for supporting data-intensive agricultural, plant-based research as well as providing ready access to the internet and data network.	\$53,000	CALS / VAES	CALS IT Dell JMA Pierson Wireless	Cancelled	After further analysis and discussions it was was not expected to be worth the cost and la now providing 5G that looks like it covers mu more.
	AREC Audiovisual (A/V) Upgrades - Phase 2	Installation of new audio and video equipment for ARECs to provide enhanced conferencing abilities in classrooms. Much of this second phase is focused on some of the smaller AREC offices.	\$60,000	CALS / VAES	CALS IT Vendor: Lee Harman and Sons	Complete	This phase follows the upgrades to the large the following locations: Eastern Virginia, Eas equipment has been installed and this projec
PROJEC	CTS IN PROGRESS						
	Bandwidth and Internet Connectivity Improvements	Identify and implement bandwidth upgrade opportunities across campus locations to enhance research and address emerging requirements.	Various	CALS / VAES	CALS IT Division of IT	Ongoing	 1) Kentland Dark Fiber: Complete. Upgraded 2) Kentland Swine Center Connection: Compl 3) Kentland Hay Shed: In planning. 4) Turkey Farm (Glade Rd.): Complete. 5) Turfgrass Center: Complete.
	AREC Voice-Over Internet Protocol (VOIP) Conversion	Convert legacy telephone systems at all ARECs to unified Voice Over Internet Protocol (VOIP) systems to match the voice service on campus.	\$75,000	CALS / VAES	CALS IT Division of IT	On Hold	VOIP conversion projects have been complete Roads, Reynolds Homestead, and Southwest adequate. The existing service contract expire Zoom phone contract has been awarded to re additional offices to the legacy system, and in becomes available.
	Network Equipment Upgrades and Expansion	This project replaces or upgrades aging Local Area Network (LAN) equipment as well as expand in-building wireless and some external wireless capabilities. This effort also includes the procurement and installation on new "backend" equipment that will be installed on campus to manage and operate the networks at the AREC and other extension offices.		CALS / VAES	CALS IT	Ongoing	Equipment is being configured, shipped, and i locations will take much of the year to comple work included the installation of 20 new swite equipment and cabling. Over 85% of the VCE and new internet protocol (10-Net) addressin
PROJEC	CT INITIATION / PLANNING STAGE						
	N/A						

College of Agriculture Life Sciences (CALS) Projects Status Report BUILDINGS AND GROUNDS COMMITTEE August 29, 2023

was agreed to cancel this project. The projected wireless capability and labor required. As a side note, a commercial cellular vendor is rs much of the site. So, there are opportunities to explore that a bit

arger AREC sites (Phase I) and provides updated A/V equipment to a, Eastern Shore, Middleburg, and Shenandoah Valley offices. All project is complete.

aded from 200MB to 10GB. omplete.

pleted at 8 of the 11 ARECs. Remaining locations include Hampton vest Virginia ARECs where the existing telephone service has been expires in two years and the Division of IT has announced that a new to replace the existing system. It does not make sense to migrate any nd instead wait to migrate these to the new Zoom offering once it

and installed. These network installations at the ARECs and VCE mplete. Installations have been completed at 5 of the ARECs and switches, 80 wireless access points, and various other network VCE offices have been upgraded with new wireless access points ressing upgrades.



DESIGN PREVIEW & REVIEW for LIFE, HEALTH, SAFETY, ACCESSIBILITY & CODE COMPLIANCE – PRIORITY 2

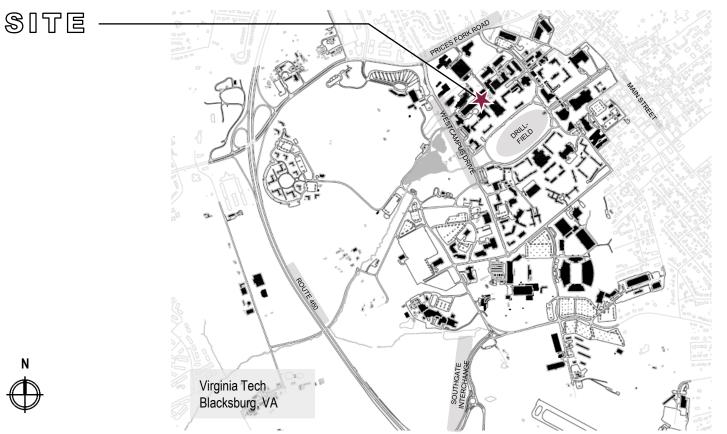
LIZA MORRIS

ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

August 29, 2023

ATTACHMENT G

PROJECT LOCATION



PROJECT INFORMATION

SCOPE LHSACC - PRIORITY 2 (GREENLINK)

DELIVERY METHOD DESIGN BID BUILD

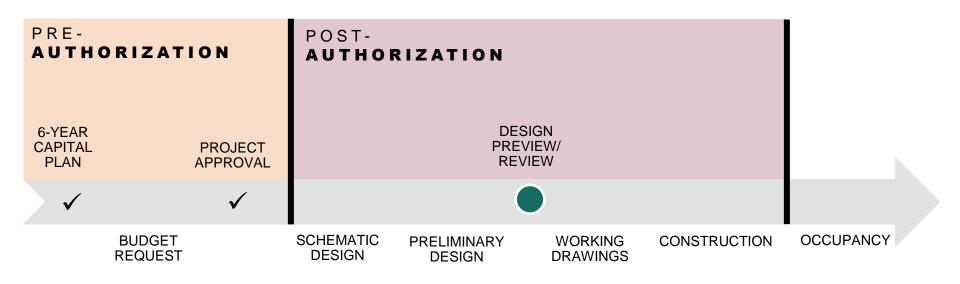
TOTAL PROJECT BUDGET \$3,900,000* FOR PRIORITY 2

DESIGN PHASE WORKING DRAWINGS

ESTIMATED CONSTRUCTION START LATE FALL 2023

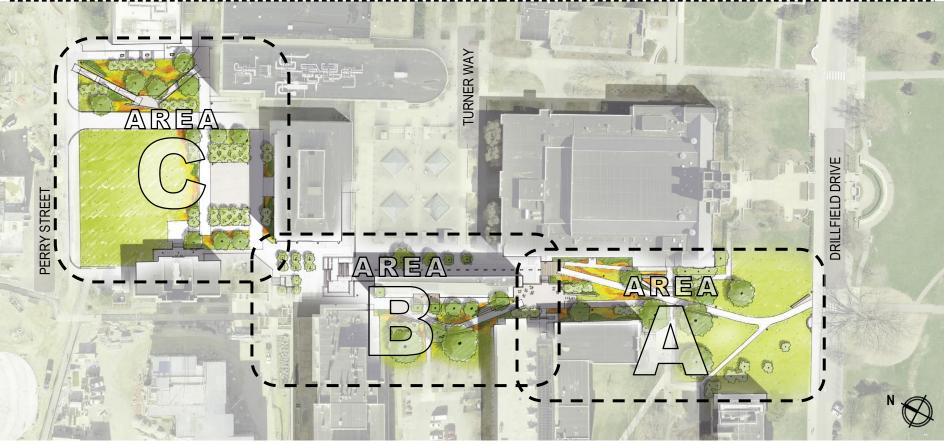
ESTIMATED CONSTRUCTION COMPLETION LATE FALL 2024

* Total project budget of \$10.4M includes priority 1, 2, and 3 accessibility projects



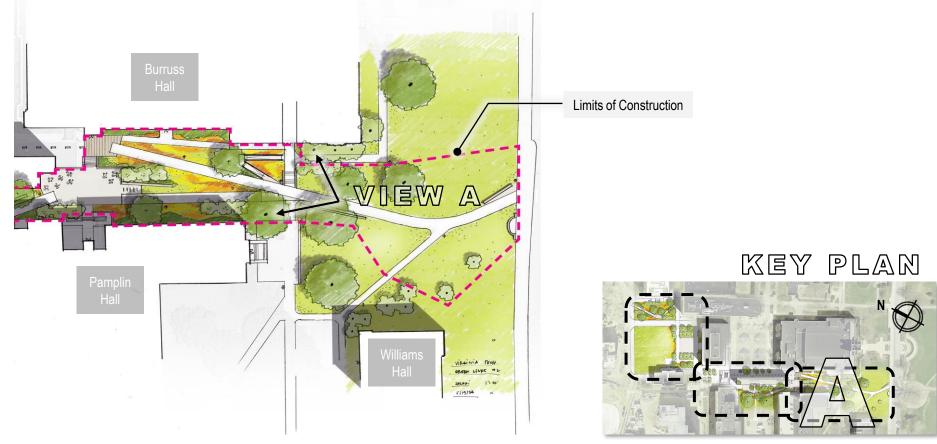
ATTACHMENT G

SITE PLAN - OVERALL



ATTACHMENT G

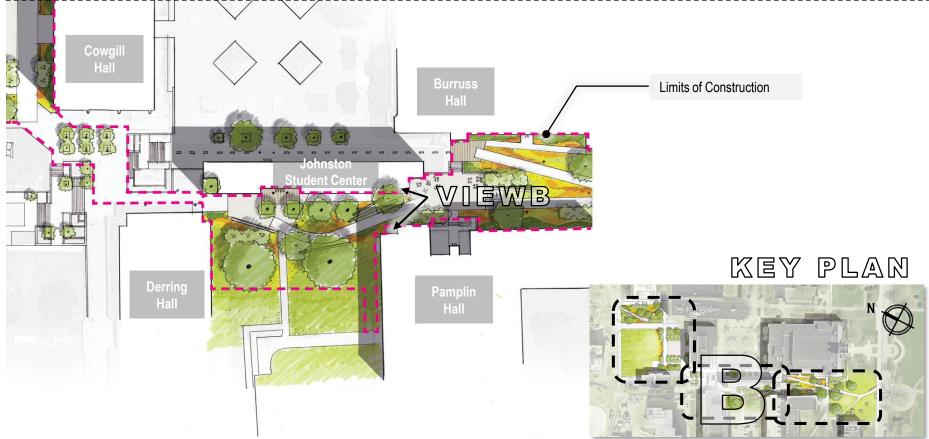
SITE PLAN - AREA A



ATTACHMENT G IMAGES - VIEW A PROPOSED Pamplin Hall Burruss EXISTING CONTRIA

ATTACHMENT G

SITE PLAN - AREA B

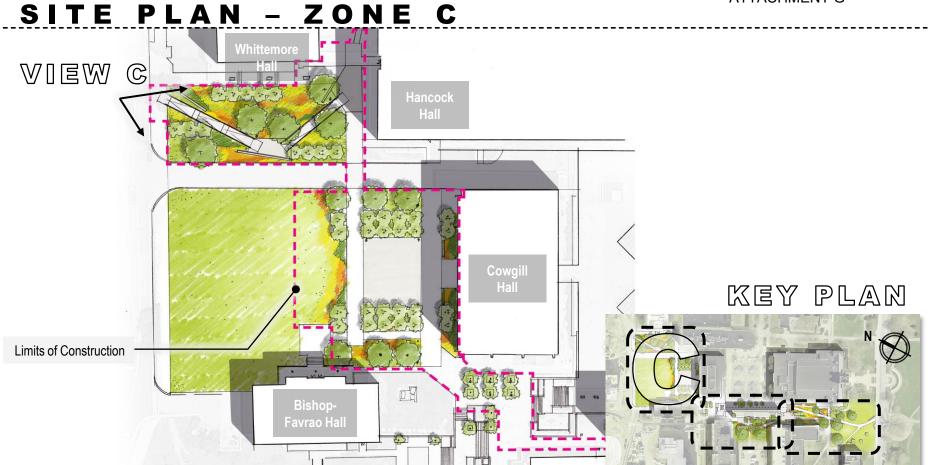


IMAGES - VIEW B

ATTACHMENT G



ATTACHMENT G



ATTACHMENT G

IMAGES - VIEW C



That the Design Preview & Review graphics be approved, and authorization be provided to continue with the project design consistent with the drawings shown.

DESIGN PREVIEW & REVIEW FOR LIFE, HEALTH, SAFETY, ACCESSIBILITY & CODE COMPLIANCE – PRIORITY 2

Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the Commonwealth. This project is the second priority of three high priority accessibility initiatives identified by the university in the Life, Health, Safety, Accessibility & Code Compliance category of the 2018-2024 Capital Outlay Plan. The project is scoped to create a new accessible route on an existing primary pedestrian corridor which will support equal access to key Education and General funded facilities in the North Academic District.

The project is in the working drawings phase with construction anticipated to begin late fall of 2023 and to attain substantial completion late fall of 2024. The university received total project funding of \$10.4 million in Life, Health, Safety, Accessibility & Compliance funds from the state for three priority projects, \$3.9 million of which will be applied to the second priority project.

Capital Project Information Summary – Life, Health, Safety, Accessibility & Code Compliance: Priority 2 – Design Preview & Review

BUILDINGS AND GROUNDS COMMITTEE

August 29, 2023

Title of Project:

Life, Health, Safety, Accessibility & Code Compliance – Priority 2

Location:

The project is sited within the North Academic District, on an existing primary pedestrian route that connects the Drillfield to a transportation intensive portion of the district. This route connects Drillfield Drive to Perry Street and intersects with the first priority project adjacent to Cowgill Hall and Johnston Student Center, as well as a future Green Link project adjacent to Mitchell Hall and Hancock Hall, creating a network of intuitive accessible routes serving the academic enterprise.

Current Project Status and Schedule:

The project will be delivered under design-bid-build procurement and is currently in the working drawings phase. Construction is anticipated to begin late fall of 2023 with substantial completion anticipated late fall of 2024.

Project Description:

The project will revise a currently non-accessible pedestrian route between Drillfield Drive and Perry Street which begins to the east of Burruss Hall and directly connects Burruss Hall, Pamplin Hall, Johnston Student Center, Derring Hall, Cowgill Hall, Bishop-Favrao Hall, Hancock Hall, and Whittemore Hall with the Perry Street Garage and the Multi-Modal Transit Facility. The future Mitchell Hall project will intersect this route to further extend the accessible route network providing additional benefits.

The route was identified as a Green Link in *Beyond Boundaries 2047: the Campus Plan* and the subsequent planning document *the Green Links Concept Design & Design Guidelines* and significantly advances the university's long-range plans for improving access for all. Additional benefits of Green Links projects include the integration of accessible social interaction spaces and landscape attributes to provide shade and wind protection along these lengthy routes while traversing the challenging topography of campus.

Brief Program Description:

Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the Commonwealth. This project is the second priority of three high priority accessibility initiatives

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identified by the university in the Life, Health, Safety, Accessibility & Code Compliance category of the 2018-2024 Capital Outlay Plan. The project is scoped to create a new accessible route on an existing primary pedestrian corridor which will support equal access to key Education and General funded facilities in the North Academic District. The project is a crucial component toward resolving the lack of accessible routes in this area of campus.

Contextual Issues and Design Intent:

The Northern Academic District straddles vertical topography created by two branches of Stroubles Creek. The land use pattern to address the steep slopes resulted in the creation of multiple levels in the campus environment. Many of these levels are currently only directly accessible via non-accessible pathways.

Alternative accessible routes through this area of campus are circuitous, lengthy and difficult to locate and navigate. This project is the second of three high priority accessibility initiatives identified by the university to address these issues in this area of campus.

Funding:

This project was first proposed under the 2018-2024 Capital Outlay Plan and received a portion of the initial request, \$3.1 million in Life, Health, Safety, Accessibility & Compliance funding by the 2020 General Assembly. In the 2022-2028 Capital Outlay Plan, \$7.3 million of supplemental General Fund support was requested and received. The total appropriation authorized by the General Assembly for this project is \$10.4 million, \$3.9 million of which will be applied to the second priority project.

Architect/Engineer:

Sasaki

Contractor:

TBD



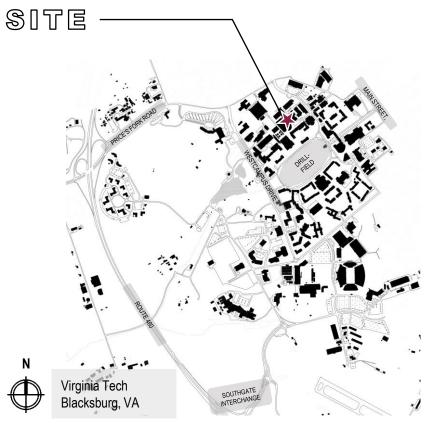
DESIGN REVIEW for **MITCHELL HALL**

LIZA MORRIS

ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

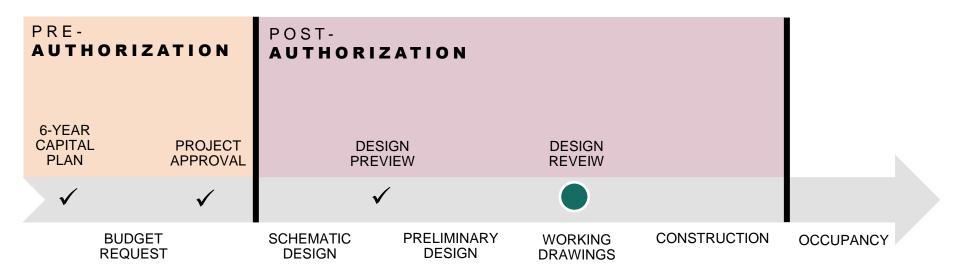
August 29, 2023

PROJECT LOCATION & INFORMATION



SCOPE	285,500 GSF
DELIVERY METHOD	CONSTRUCTION MANAGER AT
TOTAL PROJECT BUDGET	R I S K \$ 2 9 2 , 0 0 0 , 0 0 0
DESIGN PHASE	W O R K I N G D R A W I N G S
ESTIMATED CONSTRUCTION START	WINTER 2023
ESTIMATED CONSTRUCTION COMPLETION	SUMMER 2027

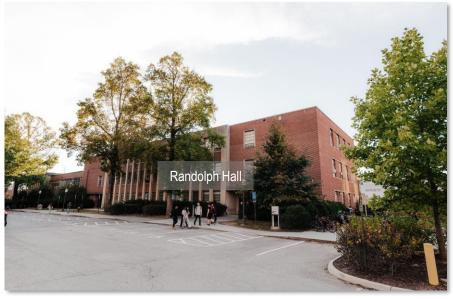
/ DESIGN REVIEW for **MITCHELL HALL**



EXISTING CONDITIONS



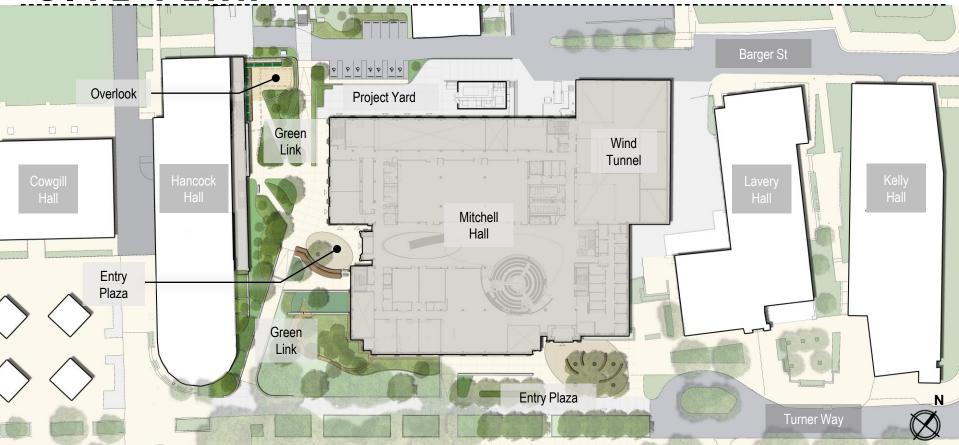
VIEW - NORTH



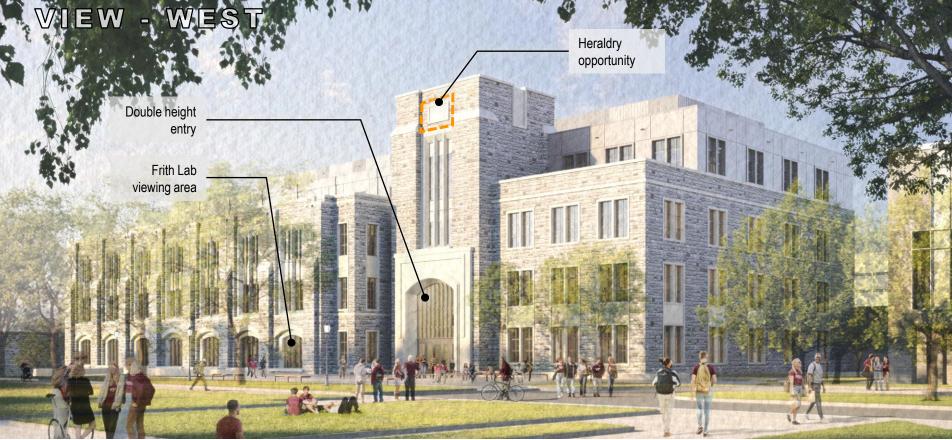
VIEW - WEST

SITE PLAN

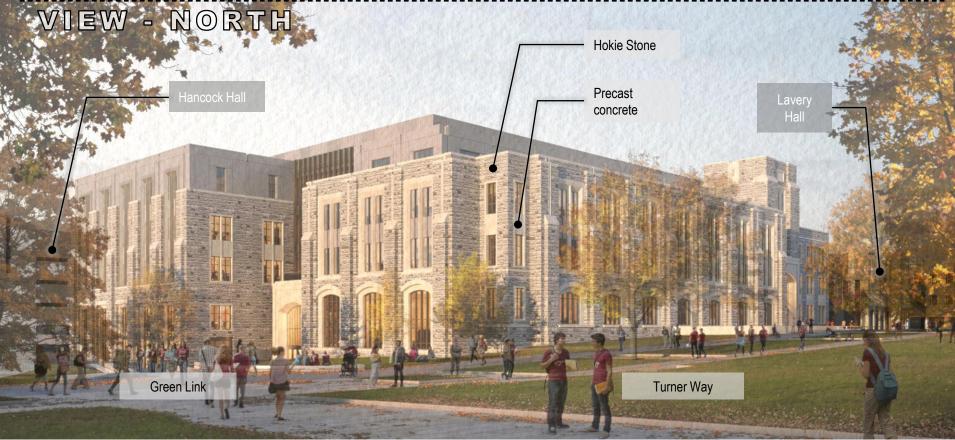
ATTACHMENT G



EXTERIOR RENDERING



EXTERIOR RENDERING



EXTERIOR RENDERING



EXTERIOR RENDERING





EXTERIOR RENDERING

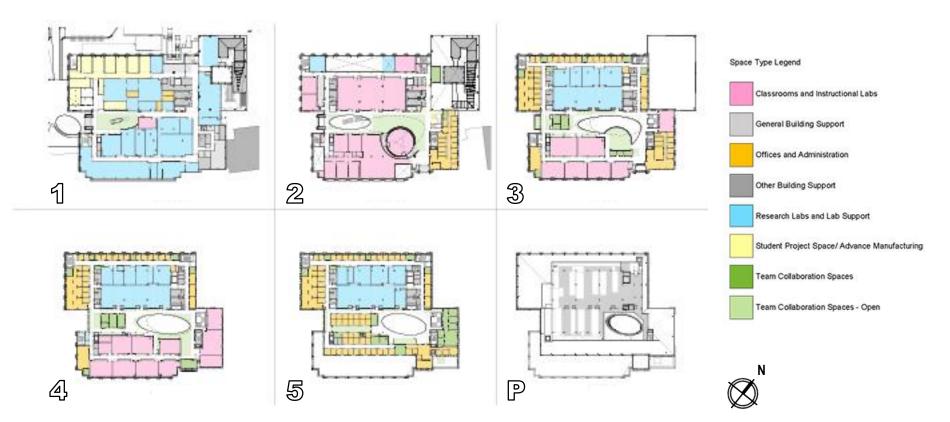
VIEW - SOUTH



INTERIOR RENDERING



FLOOR PLANS

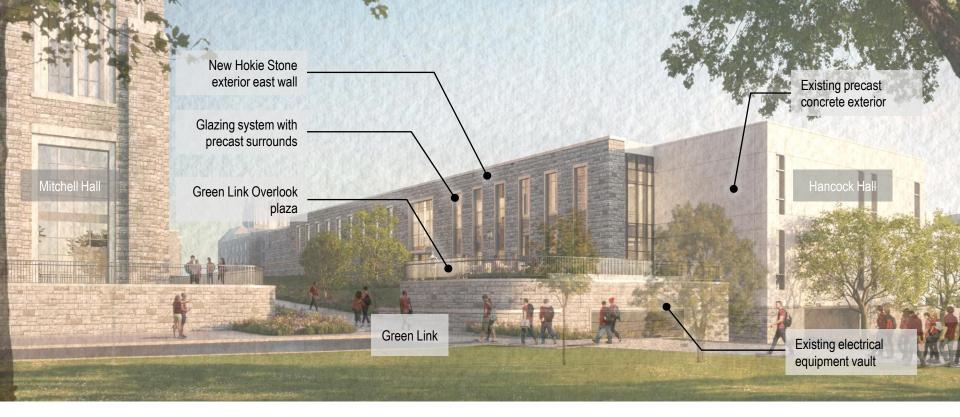


EXISTING CONDITIONS

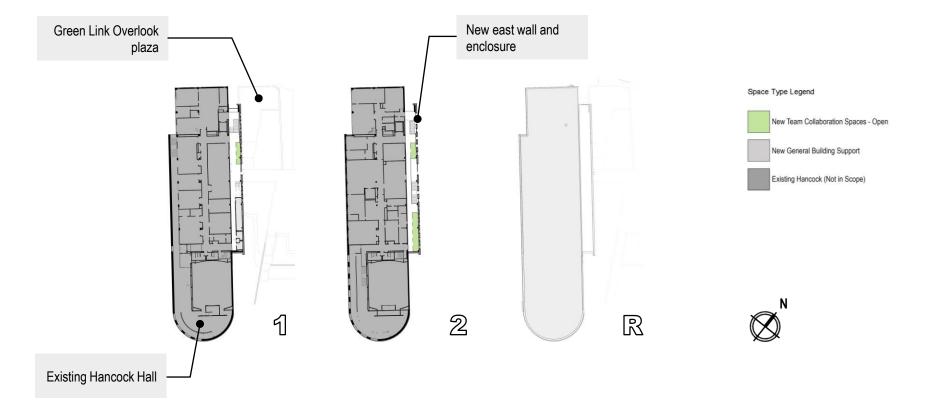


VIEW - SOUTH

EXTERIOR RENDERING - HANCOCK HALL VIEW - SOUTH



FLOOR PLANS - HANCOCK HALL



That the Design Review graphics be approved, and authorization be provided to continue with the project design consistent with the drawings shown.

DESIGN REVIEW FOR MITCHELL HALL

Virginia Tech's top ranked College of Engineering has grown 68 percent since the fall of 2006. As of 2022-2023 the number of Bachelors, Masters and Doctorate represents 39 percent degree production at the institution. To address this growth and aging facilities, as well as accommodate changing pedagogies, a new Mitchell Hall facility will replace undersized and outdated Randolph Hall with a state-of-the-art engineering hub. The facility will primarily house Aerospace and Ocean Engineering, Mechanical Engineering, and Engineering Education departments; it will provide project space for student teams, supporting national team-based research and development competitions. The project also provides student collaboration and general assignment classroom spaces serving the entire campus community.

The project received \$11 million of authorization for design funding in the 2020 Acts of Assembly, full project funding in the 2022 Acts of Assembly with a total budget of \$292 million, and is in the working drawing phase. Construction activities are anticipated to begin in the winter of 2023 with substantial completion planned for the summer of 2027.

Capital Project Information Summary – Mitchell Hall Design Review

BUILDINGS AND GROUNDS COMMITTEE

August 29, 2023

Title of Project:

Mitchell Hall

Location:

Located in the North Academic District, the project encompasses the existing Randolph Hall site and a portion of Hancock Hall, fronts Turner Way pedestrian mall to the south, Lavery Hall to the east, and Whittemore Hall to the north. The project will share a new accessible Green Link with Hancock Hall.

Current Project Status and Schedule:

The project will be delivered under construction manager at risk method of construction delivery and is currently in the working design phase. Construction activities are anticipated to begin the winter of 2023 with substantial completion planned for summer of 2027.

Project Description:

Totaling approximately 285,500 gross square feet, the new facility will add substantial square footage to the College of Engineering's portfolio within the core of campus. The project accommodates the demolition of existing Randolph Hall and partial demolition of Hancock Hall.

The existing Stability Wind Tunnel, one of the largest university-owned wind tunnels in the country, located to the east of the building, will remain and be enclosed with the new facility.

Brief Program Description:

To address the College of Engineering's significant growth, this project will replace the aging, outdated and undersized Randolph Hall with a new state of the art engineering hub. The facility will primarily house Aerospace and Ocean Engineering, Mechanical Engineering, and Engineering Education departments; it will provide additional project space for student team-based research projects, including supporting national team-based research and development competitions.

Supporting the College's innovative pedagogies, the undergraduate Frith Lab will receive a much needed increase in space and will be visible from the interior and exterior of the facility. Other key improvements include double height, highly visible spaces such as the advanced manufacturing spine. Student collaboration and

2

general assignment classroom spaces are located throughout the facility, intended to serve the entire campus community, including a 200-person innovative in-the-round classroom.

Contextual Issues and Design Intent:

Project plans are consistent with the adopted *Beyond Boundaries 2047, The Campus Plan* and include demolition of the existing brick, international style Randolph Hall and a precast concrete portion of Hancock Hall. An electrical vault beneath the demolished portion of Hancock Hall will remain and be incorporated beneath a site plaza feature.

Proposed architecture is consistent with the *Campus Design Principles*, including Hokie Stone clad exteriors rendered in collegiate gothic with precast details and select glazing systems. Metal panel systems clad the penthouse, 5th floor elevations, and the wind tunnel surround.

The proposed facility maximizes the existing site while meeting the objectives of the master plan, including the provision of a new accessible Green Link between Mitchell Hall and modified Hancock Hall which connects Turner Way with the Barger Street elevation of campus.

Funding:

The total project budget is \$292 million including \$264.2 million of General Fund and \$27.8 million of nongeneral fund.

Architect/Engineer:

Perkins + Will Inc.

Contractor:

Skanska