Open Session Minutes
BUILDINGS AND GROUNDS COMMITTEE

Monday, June 5, 2023 and Tuesday, June 6, 2023

Open Session Tours
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Monday, June 5, 2023 at 11:15 a.m. in open session in the Classroom Building (1455 Perry Street, Blacksburg, VA 24061) to depart for tours of the new Data and Decision Sciences Building (727 Prices Fork Road, Blacksburg, VA 24061) and the Quillen Spirit Plaza and Dietrick Hall (285 Ag Quad Lane, Blacksburg, VA 24061). A quorum of the Committee was present.

Board members present: Ed Baine, Anna Buhle – Graduate and Professional Student Representative, Shelley Butler Barlow, Dave Calhoun, Carrie Chenery, Sandra Davis, Holli Drewry – Administrative and Professional Faculty Representative, Greta Harris, C.T. Hill, Brad Hobbs, Anna James, Tish Long, Sharon Martin, Melissa Nelson, Jamal Ross – Undergraduate Student Representative, Jeff Veatch, Robert Weiss – Faculty Representative, Serena Young – Staff Representative

University personnel and guests: John Barrett, Lynsay Belshe, Randall Billingsley, Bob Broyden, Brock Burroughs, Cyril Clarke, Al Cooper, Alisha Ebert, Mark Embree, Ted Faulkner, Mark Gess, Frances Keene, Chris Kiwus, Sharon Kurek, Meghan Marsh, Ken Miller, Elizabeth Mitchell, George Morgan, Kim O’Rourke, Rob Ogle, Charlie Phlegar, Menah Pratt, Julie Ross, Tim Sands, Amy Sebring, Cara Spicer, John Tarter, Dwyn Taylor, Jon Clark Teglas, Tracy Vosburgh, and guests

Agenda Item
1. Tour of the Data and Decision Sciences Building: The Committee toured the recently completed Data and Decision Sciences Building. The approximately 115,000-square-foot Data and Decision Sciences Building houses faculty and classes from multiple colleges, including the College of Engineering, the College of Science, and the Pamplin College of Business. Its function is to bring together under one roof computer science, engineering, and data-related disciplines to provide opportunities for students, faculty, alumni, and even industry leaders to work side-by-side to address some of the world’s significant data challenges. The Data and Decision Sciences Building includes a multilevel commons area, team rooms in which students across disciplines can work together, specialized labs, data visualization classrooms, and more. The building’s exterior is clad in Hokie Stone and reflects the Collegiate Gothic architectural style found across campus. The facility directly supports the commonwealth’s Technology Talent Investment Program for growth in computer science and computer engineering sectors as well as other technology-based and cyber security industries. The tour included perspectives from the construction project team as well as representatives of the College of Engineering, the College of Science, and the Pamplin College of Business.

2. Tour of the Renovated Quillen Spirit Plaza and Dietrick Hall: The Committee toured the recently completed Quillen Spirit Plaza and Dietrick Hall. The Quillen Spirit Plaza is located in the area outside Dietrick Hall that faces Washington Street. It transforms and modernizes a central campus gathering place that connects residential spaces to Athletics via Dietrick Lawn. The plaza is a location for special events, including potential pep rallies,

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
and continues to be an integral part of everyday living, learning, and socializing on campus. The renovations expand the available usable space, infuse more elements that build on the school spirit atmosphere, and help foster social interaction and collaboration. The project incorporated brand elements throughout the plaza; stadium seat walls; new accessible pathways, seating, a sloped lawn, landscape beds, outdoor seating, and tables; and a HokieBird statue for photo opportunities. The Quillen Spirit Plaza is part of a larger renovation project to Dietrick Hall that included a variety of interior improvements – a new Urban Market dining venue, upgrades to Deet’s and DXpress, and enclosing the first-floor overhang to capture nearly 200 additional seats. The Quillen Spirit Plaza was made possible by a $2 million gift from three siblings of the Quillen family: Chris Quillen ’98 and his wife Jennifer, Hunter Quillen Gresham, and Matt Quillen ’06 and his wife Kelsey. The gift is one of the largest gifts in the history of Student Affairs. The tour included perspectives from the construction project team as well as representatives of the Division of Student Affairs.

There being no further business, the meeting adjourned at 12:45 p.m.

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Open Session Meeting
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Tuesday, June 6, 2023 at 10:30 a.m. in open session in Room 270 of the Classroom Building (1455 Perry Street, Blacksburg, VA 24061). A quorum of the Committee was present.

Board members present: Shelley Butler Barlow, Carrie Chenery, Holli Drewry – Administrative and Professional Faculty Representative, Greta Harris, C.T. Hill

University personnel and guests: Mac Babb, Alisha Ebert, Mark Gess, Alan Grant, Suzanne Griffin, Wendy Halsey, Heidi Myers, Mary-Ann Ibeziako, Chris Kiwus, Jack Leff, Meghan Marsh, Bernadette Mondy, Mike Mulhare, Nam Nguyen, Justin Noble, Stephanie Overton, Dwyn Taylor, Jon Clark Teglas, Pam Vickers, Paul Winistorfer, Chris Wise, and guests

Agenda Item
3. Consent Agenda: The Committee approved and accepted the items listed on the Consent Agenda.
   a. Approval of the Minutes from the March 2023 Meeting: The Committee approved the minutes from the March 20, 2023 meeting.
   b. Acceptance of the Quarterly Capital Project Status Report: The Committee accepted the quarterly capital project status report.

* 4. Resolution to Authorize the Demolition of University Buildings 0133 (Randolph Hall), 0270C (Randolph Annex), and Partial Demolition 0133C (Hancock Hall): The Committee reviewed for approval a resolution to authorize the demolition of Building No. 0133 (Randolph Hall), Building No. 0270C (Randolph Annex), and the partial demolition of Building No. 0133C (Hancock Hall). These facilities are located in the North Academic District of the main campus in Blacksburg, Virginia. Constructed in 1959, Building No. 0133

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
(Randolph Hall) is a 165,918 gross square foot (GSF) academic facility supporting the College of Engineering and provides a significant number of general assignment classrooms in the core of campus. The facility was constructed in phases, and is a concrete structure with red brick cladding. This demolition request includes all phases and appurtenant structures with the exception of the six-foot stability wind tunnel, acquired in 1958, which will remain operational. The appurtenant modular 3,360 gross square foot structure, Building No. 0270C (Randolph Annex) was constructed in 1989. Constructed in 1990, Building No. 0133C (Hancock Hall) is a 63,075 gross square foot academic building. Currently, Building No. 0133 (Randolph Hall) and Building No. 0133C (Hancock Hall) are interconnected. Demolition of Building No. 0133 (Randolph Hall) removes a shared wall which comprises the envelope enclosure of the east side of Building No. 0133C (Hancock Hall). The 16,550 gross square foot partial demolition of Building No. 0133C (Hancock Hall) includes a two-story north wing which wraps the northwest corner of Building No. 0133 (Randolph Hall). A partial basement of the wing houses an electrical vault which will remain operational. The demolition of Building No. 0133 (Randolph Hall) will allow Building No. 0133C (Hancock Hall) to become a stand-alone facility, with an envelope to be completed via a concurrent capital project. The current facilities are aged, undersized and do not support current pedagogies. These demolitions are enabling the opportunity to provide a site for a state-of-the-art engineering hub and general assignment classroom facility in the core of campus. The university will obtain review from the Department of Historic Resources and the Art and Architecture Review Board, and any required approvals prior to the demolition of these structures.

The Committee recommended the resolution authorizing the demolition of Buildings No. 0133, No. 0270C, and partial demolition of Building No. 0133C to the full Board for approval.

5. **Annual Report of the University Building Official:** The Committee received the annual report from the University Building Official, Chris Kiel. The University Building Official has primary responsibility for the proper management for, and enforcement of, the Virginia Uniform Statewide Building Code (VUSBC) to ensure that construction projects conducted on property owned by the university are completed in compliance with the code, related laws, and regulations. The office serves as primary liaison with outside regulatory agencies on code issues that affect the design, construction, and approval to occupy new university facilities or maintain existing facilities. The office was established in July 2010 after the Restructured Higher Education Financial and Administrative Operations Act of 2005 and the Management Agreement with the Commonwealth of Virginia granted the university the authority to designate its own building official. Organizationally, the University Building Official reports to the Board of Visitors through the Buildings and Grounds Committee.

6. **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.

7. **Future Agenda Items and Closing Remarks:** The Committee discussed potential topics for inclusion on future meeting agendas. Ms. Butler Barlow offered remarks of appreciation to the Committee members for their service and success.

There being no further business, the meeting adjourned at 11:30 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 Monday, June 5, 2023 at 5:00 p.m. in joint open session in Room 260 of the Classroom Building (1455 Perry Street, Blacksburg, VA 24061). A quorum of the joint Committee was present.

Board members present: Ed Baine, Shelley Barlow, Anna Buhle – Graduate and Professional Student Representative, Dave Calhoun, Carrie Chenery, Sandra Davis, Holli Drewry – Administrative and Professional Faculty Representative, Greta Harris, C.T. Hill, Brad Hobbs, Anna James, Tish Long, Sharon Martin, Melissa Nelson, Jeff Veatch, Robert Weiss – Faculty Representative, Serena Young – Staff Representative

University personnel and guests: Janice Austin, Mac Babb, Callan Bartel, Lynsay Belshe, Eric Brooks, Bob Broyden, Brock Burroughs, Cyril Clarke, Al Cooper, Corey Earles, Jeff Earley, Alisha Ebert, Ted Faulkner, Mark Gess, Kay Heidbreder, Tim Hodge, Elizabeth Hooper, Frances Keene, Chris Kiwus, Sharon Kurek, Rob Mann, Elizabeth McClanahan, Nancy Meacham, Ken Miller, Jeff Mitchell, Heidi Myers, Justin Noble, Kim O'Rourke, Charlie Phlegar, Menah Pratt, Paul Richter, Tim Sands, Amy Sebring, Brennan Shepard, John Tarter, Dwyn Taylor, Jon Clark Teglas, Rob Viers, Tracy Vosburgh, Mike Walsh, Danny White, Chris Wise, Nick Woods, Chris Yianilos, and guests

Agenda Item
1. Motion for Joint Open Session

2. Approval of Items Discussed in Joint Closed Session: The Committees reviewed for approval the items discussed in joint closed session.

3. Approval of Resolution for the Football Locker Room Renovation Project: The Committees reviewed for approval a Resolution for the Football Locker Room Renovation Project. This 4,200 square-foot renovation project provides a state-of-the art hydrotherapy suite and renovations to the players’ restrooms and shower facilities within the Jamerson Athletic Facility. The $5.9 million total project cost will be funded with private gifts.

The Committees recommended the Resolution for the Football Locker Room Renovation Project to the full Board for approval.

4. Approval of Resolution for Student Life Village, Phase I Planning Authorization: The Committees reviewed for approval a Resolution for Student Life Village, Phase I Planning Authorization. This $19.4 million planning authorization, funded with auxiliary revenues designated for facility improvements, includes preliminary designs for: sitework; landscaping; utilities; residential, dining, and recreation structures; roads; and pathways.

The Committees recommended the Resolution for Student Life Village, Phase I Planning Authorization to the full Board for approval.

There being no further business, the meeting adjourned at 5:49 p.m.

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* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
**Open Session Agenda**

**BUILDINGS AND GROUNDS COMMITTEE**

**Monday, June 5, 2023**

*Bus departs for tour at 11:00 a.m. from the Classroom Building.*

<table>
<thead>
<tr>
<th>Agenda Item</th>
<th>Reporting Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Tour of the Data and Decision Sciences Building</td>
<td>Dwyn Taylor, Kevin Pitts, Julie Ross, Robin Russell</td>
</tr>
<tr>
<td>2. Tour of the Renovated Quillen Spirit Plaza and Dietrick Hall</td>
<td>Dwyn Taylor, Frances Keene, Ted Faulkner</td>
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**Tuesday, June 6, 2023**

*Open session meeting begins at 10:30 a.m. in Room 270 of the Classroom Building.*

<table>
<thead>
<tr>
<th>Agenda Item</th>
<th>Reporting Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Consent Agenda</td>
<td>Committee Chair</td>
</tr>
<tr>
<td>a. Approval of the Minutes from the March 2023 Meeting</td>
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<tr>
<td>b. Acceptance of the Quarterly Capital Project Status Report</td>
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<tr>
<td>4. Resolution to Authorize the Demolition of University Buildings 0133 (Randolph Hall), 0270C (Randolph Annex), and Partial Demolition 0133C (Hancock Hall)</td>
<td>Liza Morris</td>
</tr>
<tr>
<td>5. Annual Report of the University Building Official</td>
<td>Chris Kiel</td>
</tr>
<tr>
<td>6. Update on Agricultural Facilities</td>
<td>Alan Grant</td>
</tr>
<tr>
<td>7. Future Agenda Items and Closing Remarks</td>
<td>Committee Chair</td>
</tr>
</tbody>
</table>

* Requires Full Board Approval  
# Discusses Enterprise Risk Management Topic(s)  
+ Discusses Strategic Investment Priorities Topic(s)
Joint Closed/Open Session Agenda

FINANCE AND RESOURCE MANAGEMENT COMMITTEE AND BUILDINGS AND GROUNDS COMMITTEE

June 5, 2023
5:00 p.m.
Room 260, New Classroom Building

Joint Closed

**Agenda Item**
1. Motion to Begin Joint Closed Session
* 2. Approval of Resolution for the Acquisition of Real Property

**Reporting Responsibility**
Greta Harris
Ken Miller
Chris Kiwus
Bob Broyden

Joint Open

**Agenda Item**
1. Motion to Reconvene in Joint Open Session

2. Approval of Items Discussed in Joint Closed Session
* 3. Approval of Resolution for the Football Locker Room Renovation Project
* 4. Approval of Resolution for Student Life Village, Phase I Planning Authorization

**Reporting Responsibility**
Greta Harris
Ed Baine
Shelley Butler Barlow
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)
Tour of the Data and Decision Sciences Building

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 5, 2023

The Committee will tour the recently completed Data and Decision Sciences Building.

The approximately 115,000-gross-square-feet Data and Decision Sciences Building houses faculty and classes from multiple colleges, including the College of Engineering, the College of Science, and the Pamplin College of Business. Its function is to bring together under one roof computer science, engineering, and data-related disciplines to provide opportunities for students, faculty, alumni, and even industry leaders to work side-by-side to address some of the world’s significant data challenges. The Data and Decision Sciences Building includes a multilevel commons area, team rooms in which students across disciplines can work together, specialized labs, data visualization classrooms, and more. The building’s exterior is clad in Hokie Stone and reflects the Collegiate Gothic architectural style found across campus.

The facility directly supports the commonwealth’s Technology Talent Investment Program for growth in computer science and computer engineering sectors as well as other technology-based and cyber security industries.

The tour will include perspectives from the construction project team as well as representatives of the College of Engineering, the College of Science, and the Pamplin College of Business.
Tour of the Quillen Spirit Plaza and Dietrick Hall

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 5, 2023

The Committee will tour the recently completed Quillen Spirit Plaza and Dietrick Hall.

The Quillen Spirit Plaza is located in the area outside Dietrick Hall that faces Washington Street. It transforms and modernizes a central campus gathering place that connects residential spaces to Athletics via Dietrick Lawn. The plaza is a location for special events, including potential pep rallies, and continues to be an integral part of everyday living, learning, and socializing on campus. The renovations expand the available usable space, infuse more elements that build on the school spirit atmosphere, and help foster social interaction and collaboration. The project incorporated more brand elements throughout the plaza; stadium seat walls; new accessible pathways, seating, a sloped lawn, landscape beds, outdoor seating, and tables; and a HokieBird statue for photo opportunities. The Quillen Spirit Plaza is part of a larger renovation project to Dietrick Hall that included a variety of interior improvements – a new Urban Market dining venue, upgrades to Deet's and DXpress, and enclosing the first-floor overhang to capture nearly 200 additional seats.

The Quillen Spirit Plaza was made possible by a $2 million gift from three siblings of the Quillen family: Chris Quillen ’98 and his wife Jennifer, Hunter Quillen Gresham, and Matt Quillen ’06 and his wife Kelsey. The gift is one of the largest gifts in the history of Student Affairs.

The tour will include perspectives from the construction project team as well as representatives of the Division of Student Affairs.
Consent Agenda

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, June 6, 2023

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

Consent Agenda
  a. Approval of the Minutes from the March 2023 Meeting
  b. Acceptance of the Quarterly Capital Project Status Report

* Requires full Board approval.
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 Monday, March 20, 2023 at 8:37 a.m. in joint open session in Latham Ballroom C, D, E, F of the Inn at Virginia Tech and Skelton Conference Center (901 Prices Fork Rd, Blacksburg, VA 24061). A quorum of the joint Committee was present.

Board of Visitors Members Present:
Tish Long (Rector)
Ed Baine (Vice Rector and Committee Chair)
Shelly Butler Barlow (Committee Chair)
Sandy Cupp Davis
Carrie Chenery
Greta Harris (Committee Member)
C.T. Hill (Committee Member)
Brad Hobbs (Committee Member)
Anna James (Committee Member)
Chris Petersen (Committee Member)
Jeff Veatch

Constituent Representative(s) Present:
Robert Weiss (Faculty Representative)
Serena Young (Staff Representative)

Also present were the following Virginia Tech staff members and guests:
President Tim Sands, Callan Bartel, Lynsay Belshe, Bob Broyden, Brock Burroughs, Cyril Clarke, Al Cooper, David Crotts, Corey Earles, Jeff Earley, Alisha Ebert, Ted Faulkner, Mark Gess, Emily Gibson, Suzanne Griffin, Kay Heidbreder, Tim Hodge, Elizabeth Hooper, Travis Hundley, Frances Keene, Chris Kiel, Chris Kiwus, Sharon Kurek, Jack Leff, Lauren Malhotra, Rob Mann, Meghan Marsh, Elizabeth McClanahan, Nancy Meacham, Scott Midkiff, Jeff Mitchell, Liza Morris, Justin Noble, Kim O’Rourke, Mark Owczarski, James Perkins, Charlie Phlegar, Zo Qazi, Amy Sebring, Brennan Shepard, Oliver Shuey, Ken Smith, John Tarter, Dwyn Taylor, Jon Clark Teglas, Rob Viers, Tracy Vosburgh, Michael Walsh, Melinda West, Chris Wise, and Nick Woods

*#+ 1. Approval of the 2024-2030 Capital Outlay Plan: In November, the Board of Visitors approved an update to the 2047 Campus Master Plan which made adjustments to its long-term land use plans. Today, the Committees reviewed for approval the Six-Year Capital Outlay Plan.

Capital Outlay Plans identify the university’s top priorities for future facility improvements and ensure debt capacity would be sufficient for the plan, but do not authorize action or spending for individual projects listed on the plan. The
The university prepares an updated Six-Year Capital Outlay Plan every two years as part of its normal planning and budgeting cycle. The Plan is a critical component of positioning the university for state support of major Educational and General projects and for advancing high priority projects that may be funded entirely with nongeneral fund resources. Thus, in the future, we may expect separate requests for planning and construction of projects for consideration, and we will make those decisions when the time is appropriate. The next state capital outlay plan will be for 2024-2030 and will be established in the 2024 budget development process. Traditionally, the state requires each institution to submit a capital plan in June of the year before a new biennium begins. Based on that timetable, a plan from the university for 2024-2030 will be due to the state in June of 2023.

The university will provide an update to the status of the 2024-2030 Plan at a future Board of Visitors meeting.

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

There being no further business, the meeting adjourned at 8:46 a.m.

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Open Session Meeting
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Monday, March 20, 2023 at 9:01 a.m. in open session in the Smithfield Room of the Inn at Virginia Tech and Skelton Conference Center to depart for a campus tour (901 Prices Fork Rd, Blacksburg, VA 24061). A quorum of the Committee was present.

Board of Visitors Members Present:
Tish Long (Rector)
Shelly Butler Barlow (Committee Chair)
Greta Harris (Committee Member)
C.T. Hill (Committee Member)
Chris Petersen (Committee Member)

Constituent Representative(s) Present:
None

Also present were the following Virginia Tech staff members and guests:
President Tim Sands, Bob Broyden, Corey Earles, Alisha Ebert, Ted Faulkner, Mark Gess, Emily Gibson, Alan Grant, Patrick Hilt, Mary-Ann Ibeziako, Chris Kiel, Chris Kiwus, Kayla Lambert, Jack Leff, Meghan Marsh, Daria Maslyukova, Daniella Miller, Jeff Mitchell,
Liza Morris, Saied Mostaghimi, Heidi Myers, Justin Noble, Nam, Nguyen, James Perkins, Matt Stolte, Dwyn Taylor, Jon Clark Teglas, Paul Winistorfer, and Chris Wise

**Agenda Item**

1. **Consent Agenda:** The Committee approved the items listed on the Consent Agenda.
   
   a. **Approval of the Minutes from the November 2022 Meeting:** The Committee approved the minutes from the November 14, 2022 meeting.

   
   b. **Resolution to Approve a Corrected Deed Easement for Town of Blacksburg Water Line:** The Committee reviewed for approval a resolution to approve a corrected deed easement for Town of Blacksburg water line. As part of a residential housing project that is in support of the Virginia Tech Corporate Research Center, a water line easement to the Town of Blacksburg to connect with a main water line on Virginia Tech’s property in the area of the Wood Processing Lab has been requested to be corrected.

   The Committee recommended the Resolution to Approve a Corrected Deed Easement for Town of Blacksburg Water Line to the full Board for approval.

   c. **Acceptance of the Quarterly Capital Project Status Report:** The Committee accepted the quarterly capital project status report.

   
   * 2. **Approval of a Resolution for Conveyance of Easements:** The Committee reviewed for approval a resolution for conveyance of easements. The university on occasion has the need to convey easements to outside entities to support its mission. The university is requesting that the Executive Vice President and Chief Operating Officer or her/his designee be authorized to approve the conveyance of easements.

   The university will provide a recurring update of easements conveyed at future Board of Visitors meetings.

   The Committee recommended the Resolution for Conveyance of Easements to the full Board for approval.

   #+ 3. **Update on Agricultural Facilities and Partnerships:** The Committee received an update from Alan Grant, dean of the College of Agriculture and Life Sciences, and Paul Winistorfer, dean of the College of Natural Resources and Environment, on agricultural facilities planning and construction.

   #+ 4. **Update on the Utilities Master Plan:** The Committee received an update on the Utilities Master Plan from Mary-Ann Ibeziako, assistant vice president for
infrastructure and chief sustainability officer. In 2018, Virginia Tech completed its most recent master planning effort resulting in ‘Beyond Boundaries 2047: The Campus Plan.’ In 2020, Virginia Tech revised its Climate Action Commitment, setting sustainability goals and milestones thru 2050. The Utilities Master Plan will provide a comprehensive framework to ensure that future programmatic needs are met and that the university remains a leader in the field of higher education infrastructure. The project is underway and expected to be completed in late 2024.

5. Future Agenda Items and Closing Remarks: The Committee discussed potential topics for inclusion on future meeting agendas.

There being no further business, the meeting adjourned at 10:02 a.m.

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Open Session Dedication Ceremony
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University reconvened on Monday, March 20, 2022 at 10:15 a.m. in open session in the Lobby of the Inn at Virginia Tech and Skelton Conference Center (901 Prices Fork Rd, Blacksburg, VA 24061) to depart for a dedication ceremony at the Merryman Center. A quorum of the Committee was present.

Board of Visitors Members Present:
   Ed Baine (Vice Rector)
   Sharon Brickhouse Martin
   Shelly Butler Barlow (Committee Chair)
   Greta Harris (Committee Member)
   C.T. Hill (Committee Member)
   Chris Petersen (Committee Member)

Constituent Representative(s) Present:
   None

Also present were the following Virginia Tech staff members and guests:
   Whit Babcock, Joseph Barlow, Jr., Dave Cianelli, John Dooley, Jerry Gaines, Reyna Gilbert-Lowry, Matt Goff, Angela Hayes, Chris Helms, Chris Kiwus, Charlie Phlegar, Sue Rowdon, Jon Clark Teglas, Paul Winistorfer, Danny White, and additional invited guests
6. **Dedication Ceremony:** The Committee attended the dedication of the track and field/cross country head coach’s office in Cassell Coliseum for Dr. Jerry Gaines, ‘71.

The Committee returned to the Inn at Virginia Tech and Skelton Conference Center at 11:25 a.m.

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CAPITAL PROJECTS UPDATE

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

JUNE 6, 2023
Project Portfolio

- 16 authorized projects -- active and complete (w/in 1-year warranty phase)
- Total value of ~$1.1B
- Adds ~1.4M gross square feet (GSF) of new construction
- Renovates 250K GSF of existing space
## Progressive Capital Construction Executive Summary

**Date Prepared:** 12 MAY 2023

**LEGEND:**
- **SD** = Schematic Design
- **PD** = Preliminary Design
- **WD** = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget (GSM) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
</tr>
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<tbody>
<tr>
<td>Improve Kentland Facilities (Phase II) -- Various Locations</td>
<td>$12.5</td>
<td>$10.1</td>
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<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>Holden Hall Renovations</td>
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<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>Chiller Plant Phase II</td>
<td>$42.9</td>
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<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>Dietrick Renovation</td>
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<td>11,960</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>Data &amp; Decision Sciences Building (DBDS)</td>
<td>$79.0</td>
<td>$58.9</td>
<td>120,000</td>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
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<td>Livestock &amp; Poultry Research Facilities (Ph I) -- Various Locations</td>
<td>$25.3</td>
<td>$18.2</td>
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<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>Corps Leadership &amp; Military Science Building</td>
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<td>$37.9</td>
<td>65,428</td>
<td>8,440</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>New Upper Quad Residence Hall</td>
<td>$42.0</td>
<td>$32.0</td>
<td>56,650</td>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
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<tr>
<td>Multi-Modal Transit Facility</td>
<td>(Note 1)</td>
<td>N/A</td>
<td>N/A</td>
<td>13,606</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
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<tr>
<td>HITT Hall</td>
<td>(Note 2)</td>
<td>$85.0</td>
<td>$65.5</td>
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<td>Q1</td>
<td>Q2</td>
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<tr>
<td>Innovation Campus - Academic Building</td>
<td>(Note 2)</td>
<td>$302.1</td>
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<td>299,733</td>
<td>Q1</td>
<td>Q2</td>
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<tr>
<td>Undergraduate Science Laboratory Building</td>
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<td>Mitchell Hall (Replace Randolph Hall)</td>
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**TOTALS** $1,198.8, 1,393,869, 244,649

Note 1: Non-VT project
Note 2: Multiple GMPs results in design/construction overlap (fast track)
Note 3: Building Envelope Improvements includes 4 phases: (1) Lane Stadium (estimated to complete in spring 2024) followed by (2) Torgerston, (3) Hahn and (4) Inn at VT which are currently unscheduled
Note 4: Life, Health, Safety Acc. & Code Compl. Includes 3 phases: (1) Derring Steps Elevator Towers (scheduled to complete in DEC 2024) followed by Green Link Priorities 2 & 3 which are currently unscheduled
Note 5: Estimated construction completion of Mitchell Hall is DEC 2027

CY 2022: FY22 Q3 Q4 FY23 Q1 Q2 FY24 Q1 Q2 FY25 Q1 Q2 FY26 Q1 Q2

FY23: JAN-MAR APR-JUN JUL-SEP OCT-DEC
FY24: JAN-MAR APR-JUN JUL-SEP OCT-DEC
FY25: JAN-MAR APR-JUN JUL-SEP OCT-DEC
Project Portfolio Distribution

State/BOV Authorized Projects

Legend:
- Prior BOV (MAR 2023)
- Current BOV (JUN 2023)
- Changes since last report

- ADA Life Health Safety
- Building Envelope Improv
- Student Wellness
- U/G Science Labs
- Hitt Hall
- Innova Campus Acad Bldg
- Data & Decision Sciences
- Livestock & Poultry Research
- Corps Ldrshp & Mil Sci
- Mitchell Hall
- NUQ Residence Hall
- CID LLC
- Holden Hall
- Corps Ldrshp & Mil Sci
- Mitchell Hall
- NUQ Residence Hall
- Improve Ventland Facilities
- Improve Ventland Facilities

- Gas Fired Boiler
- CID LLC
- Closed Out
Project Portfolio Distribution

Legend:
- Prior BOV (MAR 2023)
- Current BOV (JUN 2023)
- Supported/Non-VT Projects
- Changes since last report
Capital Project Portfolio

Legend

- In Design
- Under Construction
- Warranty/Complete
- Design only

Virginia Tech Campus
In Design
Projects In Design

New Business Building

Mitchell Hall
Mitchell Hall (Replace Randolph Hall)

Status:
- Project fully authorized for construction by General Assembly
- Preliminary Design complete

Next Actions:
- Complete Working Drawings and begin GMP development

LEGEND:
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

Project Title | Total Project Budget ($M) | Construction Budget ($M) (Construction contract value) | New Const (GSF) | Renovation (GSF) | CY 2022 | CY 2023 | CY 2024 | CY 2025
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Mitchell Hall (Replace Randolph Hall) | $248.0 | $185.0 | 284,000 | | FY22 | FY23 | FY24 | FY25 | FY26

Designer: Perkins & Will
Builder: Skanska
Planning: New Business Building

Status:
- Schematic Design complete
- Preliminary Design underway
- CMaR contract awarded

Next Actions:
- Complete Preliminary Design phase

Designer: Moseley
Builder: Kjellstrom & Lee
Under Construction
Active Construction Projects

- Multi-Modal Transit Facility (ToB project)
- Undergraduate Science Laboratory Building
- HITT Hall
- Slusher Hall Repairs
- Corps Leadership & Military Science Building
- New Upper Quad Residence Hall
- Life, Health, Safety, Accessibility
- Student Wellness Improvements
- Innovation Campus Academic Building (Alexandria, VA)
- Livestock & Poultry Research Facilities (Various locations)
### Innovation Campus - Academic Building

#### Status:
- Construction approx 58% complete

#### Next Actions:
- Anticipated completion in summer 2024

#### Designer: SmithGroup

#### Builder: Whiting-Turner

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M) (Construction contract value)</th>
<th>Construction Budget ($M) (Construction GSF)</th>
<th>New Const (GSF)</th>
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<tbody>
<tr>
<td>Innovation Campus - Academic Building (Note 2)</td>
<td>$302.1</td>
<td>$226.3</td>
<td>299,733</td>
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Note 2: Multiple GMPs results in design/construction overlap (fast track)

#### Design Construction

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CM at Risk State Authorized

### Key Points:
- **Status:**
  - Construction approx 58% complete

### Next Actions:
- Anticipated completion in summer 2024

### Designer:
- SmithGroup

### Builder:
- Whiting-Turner
**Slusher Hall Repairs**

**Status:**
- Construction contract awarded and under way

**Next Actions:**
- Anticipated completion in August 2023

---

**PROJECT STATUS TABLE**

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
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<td>FY23</td>
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<td>FY25</td>
<td>FY26</td>
<td></td>
</tr>
</tbody>
</table>

**LEGEND:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

**Cost Summary**

- **Slusher Hall Repairs**
  - Total Project Budget: $7.5
  - Construction Budget: $5.6
  - New Const (GSF): 38,000

**Personnel**

- **Designer:** Gresham Smith
- **Builder:** Kesler Contracting

---

**Emergency Procurement**

BOV Authorized
Life, Health, Safety, Accessibility & Code Compliance

Status:
- Capital project will be executed in three phases
- Phase 1 (Derring Steps Elevators) construction approx 20% complete
- Phases 2 & 3 (Green links) in design

Next Actions:
- Anticipated completion in spring 2024

Design-Bid-Build
State Authorized

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

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
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<td>JAN-MAR</td>
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<td>OCT-DEC</td>
<td>JAN-MAR</td>
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<tr>
<td>Life, Health, Safety, Accessibility and Code Compliance (Note 3)</td>
<td>$10.4</td>
<td>$3.9</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
</tbody>
</table>

Designer: Quinn Evans  
Builder: WM Jordan
**Building Envelope Improvements**

**Status:**
- Envelope improvements planned for four buildings
- First building construction approx 30% complete

**Next Actions:**
- First building targeted for completion in completion winter/spring 2024

**Design-Bid-Build**
**BOV Authorized**

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

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<th>CY 2024</th>
<th>CY 2025</th>
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<tbody>
<tr>
<td>Building Envelope Improvements</td>
<td>$47.2</td>
<td>$41.9</td>
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</table>

**Designer:** Quinn Evans

**Builder:** WM Jordan
**Student Wellness Improvements**

**Status:**
- Construction approx 25% complete

**Next Actions:**
- Anticipated completion in July 2024

---

**LEGEND:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
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<th>Q2</th>
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<td>Student Wellness Improvements</td>
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</table>

**Designer:** Cannon Design

**Builder:** Whiting-Turner

**CM at Risk**

**BOV Authorized**
**Undergraduate Science Laboratory Building**

**Status:**
- Construction approx 30% complete

**Next Actions:**
- Anticipated completion in June 2024

**CM at Risk State Authorized**

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
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<td>Undergraduate Science Laboratory Building</td>
<td>$90.4</td>
<td>$69.5</td>
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**Design:** ZGF  
**Builder:** Skanska
### Hitt Hall

**Status:**
- Construction approx 33% complete

### Next Actions:
- Anticipated completion in March 2024

**LEGEND:**
- **SD** = Schematic Design
- **PD** = Preliminary Design
- **WD** = Working Drawings

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<th>Project Title</th>
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<td>HITT Hall</td>
<td>$85.0</td>
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**Design Construction**

Note 2: Projects will be executed in prioritized sub-projects

Designer: Cooper Cary

Builder: W M Jordan
**Corps Leadership & Military Science Building**

**Status:**
- Construction approx 95% complete

**Next Actions:**
- Anticipated completion in July 2023

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

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<th>Project Title</th>
<th>Total Project Budget ($M)</th>
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|                      |    |           |           |           | CY 2022 |        |           |           | CY 2023 |        |           |           | CY 2024 |        |           |           | CY 2025 |        |           |           |
|                      |    | JAN-MAR   | APR-JUN   | JUL-SEP  | OCT-DEC | JAN-MAR | APR-JUN | JUL-SEP  | OCT-DEC | JAN-MAR | APR-JUN | JUL-SEP  | OCT-DEC | JAN-MAR | APR-JUN | JUL-SEP  | OCT-DEC | JAN-MAR | APR-JUN | JUL-SEP  | OCT-DEC |
| FY22                 |    | Q3        | Q4        | Q1       | Q2      | Q3      | Q4      | Q1       | Q2      | Q3      | Q4      | Q1       | Q2      | Q3      | Q4      | Q1       | Q2      | Q3      | Q4      | Q1       | Q2      |
| FY23                 |    |           |           |           |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| FY24                 |    |           |           |           |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| FY25                 |    |           |           |           |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| FY26                 |    |           |           |           |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

**Designer:** Clark - Nexsen

**Builder:** Vannoy
**New Upper Quad Residence Hall**

**Status:**
- Construction approx 85% complete

**Next Actions:**
- Anticipated completion in August 2023

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

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<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
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**Designer:** Clark - Nexsen

**Builder:** Vannoy
**Data & Decision Sciences Building**

**Complete**

**Status:**
- Construction complete on budget and on time

**Next Actions:**
- Close out project

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
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<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
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<tr>
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**Construction Budget ($M) (Construction contract value):**
- CY 2022
  - FY22: G3 Q4
  - FY23: Q1 Q2 Q3 Q4
  - FY24: Q1 Q2 Q3 Q4
  - FY25: Q1 Q2 Q3 Q4
  - FY26: Q1 Q2

**Designer:** Moseley

**Builder:** Kjellstrom & Lee
**Dietrick Renovation**  
(& Quillen Spirit Plaza)

**Status:**  
- Construction complete on budget and on time

**Next Actions:**  
- Close out project

<table>
<thead>
<tr>
<th>Project Title</th>
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<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
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**Construction Budget ($M) (Construction contract value):**
- FY22: Q3 Q4 Q1 Q2 Q3 Q4
- FY23: Q1 Q2 Q3 Q4
- FY24: Q1 Q2 Q3 Q4
- FY25: Q1 Q2 Q3 Q4
- FY26: Q1 Q2

**Designer:** Hanbury  
**Builder:** Branch Builds
## Livestock & Poultry Research Facilities (Phase I)

### Status:
- Equine (100%); poultry, swine & beef (99%)

### Next Actions:
- Procure bid packages #5 (3 new hay barns) and #6 (demo of existing swine facility)

### Design-Bid-Build State Authorized

### Legend:
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

### Livestock & Poultry Research Facilities (Ph I) -- Various Locations

<table>
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<tr>
<th>Total Project Budget ($M)</th>
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<th>Project Title</th>
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<tr>
<td>$25.3</td>
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<td>Livestock &amp; Poultry Facilities (Ph I) -- Various Locations</td>
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</table>

| Designer: Spectrum Design | Builder: (Various) |

### ATTACHMENT I
Holden Hall Renovation

**Status:**
- Warranty period complete

**Next Actions:**
- Close out project

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

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<th>OCT-DEC</th>
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</thead>
<tbody>
<tr>
<td>Holden Hall Renovations</td>
<td>$74.9</td>
<td>$58.5</td>
<td>82,905</td>
<td>20,240</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
</tbody>
</table>

**Warranty**

Designer: Moseley

Builder: WM Jordan

**CM at Risk**

State Authorized
**Improve Kentland Facilities (Phase II)**

**Status:**
- APR Building construction complete
- BETR Building construction complete
- MRL Building construction complete

**Next Actions:**
- APR Building: None -- warranty period complete
- BETR Building: None -- warranty period complete
- MRL Building: Resolve manure treatment issue (design/warranty issue)

**LEGEND:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GF)</th>
<th>Renovation (GF)</th>
<th>CY 2022</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve Kentland Facilities (Phase II) -- Various Locations</td>
<td>$12.5</td>
<td>$10.1</td>
<td>28,403</td>
<td></td>
<td>FY22 Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
</tr>
</tbody>
</table>

**Designer:** Spectrum Design

**Builder(s):** APR = Snyder; MRL & BETR = CPPI

**Design-Bid-Build**
State Authorized

**ATTACHMENT I**
**Chiller Plant (Phase II)**

**Status:**
- Project complete

**Next Actions:**
- Close out project

**Legend:**
- SD = Schematic Design
- PD = Preliminary Design
- WD = Working Drawings

**Design-Bid-Build State Authorized**

**Designer:** AEI  
**Builder:** Faulconer

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M) (Construction contract value)</th>
<th>New Const (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2022 Q1</th>
<th>CY 2022 Q2</th>
<th>CY 2022 Q3</th>
<th>CY 2022 Q4</th>
<th>CY 2023 Q1</th>
<th>CY 2023 Q2</th>
<th>CY 2023 Q3</th>
<th>CY 2023 Q4</th>
<th>CY 2024 Q1</th>
<th>CY 2024 Q2</th>
<th>CY 2024 Q3</th>
<th>CY 2024 Q4</th>
<th>CY 2025 Q1</th>
<th>CY 2025 Q2</th>
<th>CY 2025 Q3</th>
<th>CY 2025 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chiller Plant Phase II</td>
<td>$42.9</td>
<td>$32.7</td>
<td>N/A</td>
<td></td>
<td>FY23 Q1</td>
<td>FY23 Q2</td>
<td>FY23 Q3</td>
<td>FY23 Q4</td>
<td>FY24 Q1</td>
<td>FY24 Q2</td>
<td>FY24 Q3</td>
<td>FY24 Q4</td>
<td>FY25 Q1</td>
<td>FY25 Q2</td>
<td>FY25 Q3</td>
<td>FY25 Q4</td>
<td>FY26 Q1</td>
<td>FY26 Q2</td>
<td>FY26 Q3</td>
<td>FY26 Q4</td>
</tr>
</tbody>
</table>

**Construction Budget ($M)**

**WARRANTY**
Multi-Modal Transit Facility

Status:
• Construction underway (approx 60% complete)

Next Actions:
• Anticipated completion in fall 2023

Legend:
SD = Schematic Design
PD = Preliminary Design
WD = Working Drawings

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget (SM)</th>
<th>Construction Budget (SM) (Construction contract value)</th>
<th>New Const (G&amp;F)</th>
<th>Renovation (G&amp;F)</th>
<th>CY 2022</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Modal Transit Facility</td>
<td>(Note 1)</td>
<td>N/A</td>
<td>N/A</td>
<td>13,606</td>
<td>Q3</td>
<td>Q4</td>
<td>Q1</td>
<td>Q2</td>
</tr>
</tbody>
</table>

Note 1: Non-VT project

Designer: Wendel (ToB contract)  
Builder: WM Schlosser (ToB contract)
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
UNIVERSITY BUILDING OFFICIAL

BOARD OF VISITORS

BUILDINGS AND GROUNDS COMMITTEE

JUNE 6, 2023
OFFICE OF THE UNIVERSITY BUILDING OFFICIAL

Established in 2010, the Office of the University Building Official has primary responsibility for the proper management for, and enforcement of, the Virginia Uniform Statewide Building Code to ensure that construction projects conducted on property owned by the university are completed in compliance with the code, related laws, and regulations.
Chris Kiel, PE, MCP, CBO
University Building Official

Heather Snidow
Permit Technician/
Administrative Coordinator

Marie Castillo
Assistant Permit Technician

Steven Smith, PE, CBO
Mechanical & Plumbing Code
Plan Reviewer/Inspector

John Bush, AIA
Architectural Code Plan
Reviewer/Inspector

David Brown, CFO
Fire Code Plan
Reviewer/Inspector

Jack Thompson, Jr., PE
Electrical Code Plan
Reviewer/Inspector

Mike Vellines, PE, CBO
Structural Code Plan
Reviewer/Inspector
23% INCREASE TO PRE-COVID NUMBERS

Number of Plan Reviews and Comment Rate

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Plan Reviews</th>
<th>Comment Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-20</td>
<td>1957</td>
<td>23.8%</td>
</tr>
<tr>
<td>2020-21</td>
<td>1563</td>
<td>25.1%</td>
</tr>
<tr>
<td>2021-22</td>
<td>1782</td>
<td>23.3%</td>
</tr>
<tr>
<td>2022-23</td>
<td>2405</td>
<td>36.0%</td>
</tr>
</tbody>
</table>
65% increase in the number of inspections while reducing the number of percentage of inspection failures by 3.6%
IMPROVEMENTS

Special Thanks
Michael Parrish
Whitney Spangler
Gannon Davis

Tutorial video | Departments please submit customer funded requests through HokieMart | Leased properties please use landlord portals, if available

Internal Work & Administrative Requests
- Design Waiver
- Special Inspections

University Building Official Requests
- Inspection Requests
- Applications
- Code Modifications
- Construction Trailer Permits
- TCO/CO Submittal
- TCO/CO Request
- Cable Port Inspection Requests
### UBO Completed Inspections Summary

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Project</th>
<th>Inspector</th>
<th>Inspection Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCAP</td>
<td>CORPS LEADERSHIP MILITARY SCIENCE BUILDING</td>
<td>All</td>
<td>4/2/2019 - 4/19/2023</td>
</tr>
</tbody>
</table>

#### Total Inspections

- **462** Total Inspections
- **21** Failed Inspections
- **4.55%** Failure Rate

<table>
<thead>
<tr>
<th>Project #</th>
<th>Status</th>
<th>Project Name</th>
<th>Total Inspections</th>
<th>Failed Inspections</th>
<th>Failure Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>UBO-20-0346</td>
<td>PERMITTED</td>
<td>CORPS LEADERSHIP MILITARY SCIENCE BUILDING - CLMS NEW CONST</td>
<td>462</td>
<td>21</td>
<td>4.55%</td>
</tr>
</tbody>
</table>

#### Inspection Type Details

- B-WALL CLOSE IN: 4 (12.50%)
- B-REINFORCEMENT: 3 (6.82%)
- B-ABOVE CEILING: 2 (9.09%)
- B-FIRE RTD WALL: 2 (4.76%)
- B-FOUNDATION: 2 (11.11%)
- B-FRAMING: 2 (11.11%)
- B-SCOTCHSTONE: 1 (1.55%)
- S-ROOM STONE: 1 (1.55%)

#### Total Inspections, Failure Rate and Failed Inspections by Year and Quarter

- **2021 Qtr 2**: 100 (5.88% Failure Rate)
- **2021 Qtr 3**: 100 (4.76% Failure Rate)
- **2021 Qtr 4**: 100 (4.48% Failure Rate)
- **2022 Qtr 1**: 100 (3.53% Failure Rate)
- **2022 Qtr 2**: 100 (2.88% Failure Rate)
- **2022 Qtr 3**: 100 (2.88% Failure Rate)
- **2022 Qtr 4**: 100 (6.56% Failure Rate)
- **2023 Qtr 1**: 100 (2.88% Failure Rate)
- **2023 Qtr 2**: 100 (0% Failure Rate)
THANK YOU!

Office of the University Building Official
540-231-4678
vtubo-g@vt.edu
## Capital Projects

### Projects in Construction

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Project Description</th>
<th>Estimated Total Project Cost</th>
<th>Fund Source</th>
<th>Project Teams</th>
<th>Contract Completion Date</th>
<th>Project Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve Kentland Facilities, Phase II</td>
<td>Applied Reproduction Facility (APR): 4.10 SF barn at VA-Med for palpation and breeding instruction. Bovine Extension, Teaching and Research (BETR) Facility: 1,005 SF classroom building and 15,305 SF demonstration arena at livestock center on Plantation Road. Metabolic Research Laboratory (MRL): 11,310 SF animal laboratory at the Dairy Center at Kentland Farm.</td>
<td>$12,463,000</td>
<td>Capital Outlay</td>
<td>Spectrum</td>
<td>Fall 2020</td>
<td>All projects have reached substantial completion and have certificate of occupancy. Minor corrective work at the Metabolic Research Lab is ongoing.</td>
</tr>
<tr>
<td>New Virginia Seafood AREC Building</td>
<td>215,980 SF, 4-story building to replace existing aging and structurally unsound facility in Hampton, Virginia with state-of-the-art aquaculture research and extension facilities. Facility owned and developed by Virginia Tech Foundation.</td>
<td>$9,360,000</td>
<td>Various</td>
<td>E.T. Gresham</td>
<td>April 2022</td>
<td>Certificate of Occupancy has been received. Remaining punch list and change order items are complete. Commissioning continues to find and address issues.</td>
</tr>
<tr>
<td>Livestock and Poultry Research Facilities, Phase I</td>
<td>Pkg 1: New Swine Center at Kentland Farm. Pkg 2: New Beef Nutrition Facility &amp; Hay Shed at Kentland Farm. Pkg 3: New Breeder $50 Hay-Grow-out Facilities at the Turkey Research Center (Glade Rd.) Pkg 4: New Equitation Barn &amp; Equipment Storage Building at Livestock Center (Plantation Rd.) Pkg 5: New Key Stables at Smithfield Horse Center, fields west of US 460, and Heth Farm Pkg 6: Final Demolition of remaining facilities</td>
<td>$23,074,000</td>
<td>Capital Outlay</td>
<td>Spectrum</td>
<td>Packages 1-4: Summer 2023</td>
<td>Packages 1-2 are 90% complete. Packages 3-4 are 100% complete. Priority 1 Equipment buy-out is nearly complete. Occupancy to occur over summer. Packages 5-6: Package 5 and 6 are being prepared for bidding to secure funding.</td>
</tr>
</tbody>
</table>

### Projects in Design

#### Project Initiation / Planning Stage

| Year 2024-2030 6-Year Capital Outlay Plan | Capital budget requests for six projects: CNRE Center Woods, System-Wide AREC Improvements Phase I, Glade Road Relocation, Livestock and Poultry Research Facilities Facilities Phase II, Human and Agricultural Biosciences Building I, and System-Wide AREC Improvements Phase II. | TBD | Capital Outlay | TBD | TBD | Following approval of the 2024-2030 Capital Outlay Plan by the Board of Visitors, program and cost validation is underway for selected projects to be submitted this summer for state funding consideration. |
| System-Wide AREC Improvements, Phase I | Renew and expand aging and deteriorating AREC facilities. Revised phasing will address all capital needs at specific ARECs during each phase. | $30,000,000 | Capital Outlay | TBD | TBD | Reviewing priority needs to determine 2-3 ARECs for inclusion in Phase I scope. |
| Replace Plant and Animal Facilities at Glade Road | Relocate existing facilities away from the Glade Road Research Facility. | $41,000,000 | Capital Outlay | TBD | TBD | Reviewing program and budget with CPIF for budget submission. |
| Plant & Animal Environmental Sciences Research 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. | $68,000,000 | Capital Outlay | TBD | TBD | Re-programming effort completed with a $213.5 M construction target. Draft Feasibility report is under review. |

### Non-Capital Projects

#### Project Initiation / Planning Stage

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Project Description</th>
<th>Estimated Total Cost</th>
<th>Fund Source</th>
<th>Project Teams</th>
<th>Contract Completion Date</th>
<th>Project Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor Projects (CALS $50,000 each)</td>
<td>Ah Scheidt, Jr. AREC Fuel Disbursement Point (FDP) repairs Repair cracks and seal secondary coinvestment pits for two fuel dispensing stations</td>
<td>$15,000</td>
<td>CALS / VAES</td>
<td>TBD</td>
<td>Winter 2022/2023</td>
<td>Complete</td>
</tr>
<tr>
<td>Kentland Farm Road Improvements</td>
<td>Due to deteriorating asphalt pavement in areas of Kentland Farm road network, certain areas require spot repairs, patching, and pavement overlay to maintain the road surface. Additional areas for paving include the gravel roads to the new stables and an overlay of the BAYS Univ runway.</td>
<td>$105,000</td>
<td>CALS</td>
<td>Blackstone</td>
<td>May 2023</td>
<td>Complete</td>
</tr>
</tbody>
</table>
Eastern Virginia AREC - Experiment Building Renovation
Renovation and upgrade of existing under-utilized office, workshop and meeting space. Building HVAC system has failed and is not working. Electrical and plumbing are outdated. Building is not ADA accessible. General condition is deteriorating.
$195,000 Maintenance Reserve
Spring 2023
Construction is substantially complete. Punch list work in progress.

Southern Piedmont AREC - Packhouse Restroom Repairs
Packhouse (802) restroom is in need of plumbing repairs and upgrade to be reconfigured for ADA access. Packhouse roof is leaking and needs repair.
$220,000 Maintenance Reserve
Spring 2023
Work is complete.

PROJECTS IN CONSTRUCTION

- **Packhouse roof is leaking and needs repair.**
  - Equipment on hand. Installation being scheduled.
- **Existing chillers are leaking and utilize a refrigerant that is no longer readily available. System condition is deteriorating and in need of major repair and replacement.**
  - Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.
- **Shenandoah Valley AREC Freeze Damage Repairs**
  - 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, built space, holding pens and livestock. Repairs and painting exterior storage sheds at employee housing on Plantation Road.
- **Reynolds Homestead FRRC Exterior Repairs**
  - Equipment on hand. Installation being scheduled.
- **Eagle River AREC Chilled Water System repairs**
  - Existing chillers are leaking and utilize a refrigerant that is no longer readily available. System condition is deteriorating and in need of major repair and replacement.
- **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 deteriorating and in need of major repair and replacement.

**Maintenance Reserve**
- **Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.**
- **Temporary chiller installed late July. Equipment on hand. Installation being scheduled.**
- **Temporary chiller installed late July. Equipment on hand. Installation being scheduled.**
- **Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.**
- **Maintenance Reserve**
  - **Equipment on hand. Installation being scheduled.**
  - **Equipment on hand. Installation being scheduled.**
  - **Equipment on hand. Installation being scheduled.**
  - **Equipment on hand. Installation being scheduled.**
- **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 deteriorating and in need of major repair and replacement.
  - Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.
- **Alson H. Smith Jr. AREC Chilled Water System repairs**
  - Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.
- **Alson H. Smith Jr. AREC Chilled Water System repairs**
  - Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.
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  - Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.
- **Alson H. Smith Jr. AREC Chilled Water System repairs**
  - Temporary chiller installed mid-May. 1 year +/- lead time for permanent unit.
## College of Agriculture Life Sciences (CALS) Projects Status Report

### BUILDINGS AND GROUNDS COMMITTEE

**June 6, 2023**

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>PROJECT DESCRIPTION</th>
<th>ESTIMATED TOTAL PROJECT COST</th>
<th>FUND SOURCE</th>
<th>PROJECT TEAMS</th>
<th>CONTRACT COMPLETION DATE</th>
<th>PROJECT STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Multiple</strong></td>
<td></td>
<td>$128,000</td>
<td>CALS / VAES</td>
<td>Various</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td><strong>Puckett</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hughes</strong></td>
<td></td>
<td></td>
<td></td>
<td>Multiple</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TBD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TBD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TBD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hughes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TBD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TBD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TBD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TBD</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Broad Greenhouses, Growlink</strong></td>
<td>New enclosure of the existing open-air steel structure constructed of metal panel siding over steel girts and 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.</td>
<td>$93,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Final cost is being developed with term contract greenhouse contractor.</td>
<td></td>
</tr>
<tr>
<td><strong>Heth Farm Shed and Silo Demolition</strong></td>
<td>Demolish two structures that are currently unsafe and operationally unnecessary</td>
<td>TBD</td>
<td>CALS</td>
<td>TBI</td>
<td>Used and asbestos study complete. Obtaining quotes and permits for demolition.</td>
<td></td>
</tr>
<tr>
<td><strong>Judeg Pavilion Repairs</strong></td>
<td>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 removed due to scope concerns. Existing administration building is to be repurposed for small animal research and extension activities.</td>
<td>$392,000</td>
<td>Maintenance Reserve</td>
<td>TBI</td>
<td>Scope review with University Building Official (UBO) is necessary to resolve code requirements and funding eligibility. Project deferred to 2023.</td>
<td></td>
</tr>
<tr>
<td><strong>Campbell Arena Repairs</strong></td>
<td>New enclosure of the existing open-air steel structure constructed of metal panel siding over steel girts and posts. This work was originally included in LPRF Phase 1, but removed due to scope concerns. Existing administration building is to be repurposed for small animal research and extension activities.</td>
<td>$39,000</td>
<td>Maintenance Reserve, CALS</td>
<td>Hughes</td>
<td>AEC Proposal development underway.</td>
<td></td>
</tr>
<tr>
<td><strong>Middleburg AREC Stable exterior repairs</strong></td>
<td>Existing roof and windows are leaking. Several stalls are unusable due to leaks. Several windows are rotten.</td>
<td>$100,000</td>
<td>Maintenance Reserve</td>
<td>S Design</td>
<td>Design work underway.</td>
<td></td>
</tr>
<tr>
<td><strong>Middleburg AREC Clinic/Admin Building HVAC repairs</strong></td>
<td>Two existing heat pump systems have failed during critical and ongoing research projects.</td>
<td>$40,000</td>
<td>Maintenance Reserve</td>
<td>S Design</td>
<td>Design work underway. Temporary repairs made in May.</td>
<td></td>
</tr>
<tr>
<td><strong>Tidewater AREC Main Office and Lab Roof Replacement</strong></td>
<td>Existing roof is leaking causing damage to main lobby interior walls and classroom area.</td>
<td>$78,000</td>
<td>Maintenance Reserve</td>
<td>HBDH</td>
<td>Design drawings in progress.</td>
<td></td>
</tr>
<tr>
<td><strong>Southern Piedmont AREC - Building Repairs</strong></td>
<td>Roof/replace siding and five deteriorated lean-to equipment storage sheds attached to four tobacco curing barns (BB1A, BB1B, BB1C, BB1D).</td>
<td>$51,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Design drawings under review.</td>
<td></td>
</tr>
<tr>
<td><strong>Southern Piedmont AREC - Pavement repairs</strong></td>
<td>Existing main parking lots (5) 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.</td>
<td>$126,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Contractor quote being updated.</td>
<td></td>
</tr>
<tr>
<td><strong>Southern Piedmont AREC Greenhouse Controls Upgrade</strong></td>
<td>Minor project to make power connections for new Smart Greenhouse controls in two greenhouse ranges.</td>
<td>$126,000</td>
<td>CALS / VAES</td>
<td>TBD</td>
<td>Equipment has been ordered.</td>
<td></td>
</tr>
<tr>
<td><strong>Sheep Barn Structural Repairs</strong></td>
<td>Additional structural repairs required to support weight of hay in loft above.</td>
<td>$100,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Schematic design approved. Final design in progress.</td>
<td></td>
</tr>
</tbody>
</table>

### PROJECTS IN DESIGN / PERMITTING:

- Contractor quote being updated.
- Design work underway.
- Design work underway. Temporary repairs made in May.
- Design drawings in progress.
<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>PROJECT DESCRIPTION</th>
<th>ESTIMATED TOTAL PROJECT COST</th>
<th>FUND SOURCE</th>
<th>PROJECT TEAM</th>
<th>CONTRACT COMPLETION DATE</th>
<th>PROJECT STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NI&amp;S Communication antennae installation</td>
<td>New antennae to be installed at the Beef Barn and HABBS for enhanced coverage along Strouds Creek research field.</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Design in progress.</td>
</tr>
<tr>
<td>Eastern Shore AREC Lab-DBB Renovation</td>
<td>Lift up existing space to accommodate new research lab.</td>
<td>$105,000</td>
<td>CALS</td>
<td>TBD</td>
<td>TBD</td>
<td>AJS procurement underway.</td>
</tr>
<tr>
<td>Shenandoah Valley AREC - Repair/Replace Sheep Barn</td>
<td>Sheep Barn (3854) has rotten posts at ground level and leaking roof. The building should be evaluated for repair or replacement.</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Shenandoah Valley AREC - Renovate Carriage House</td>
<td>Renovate Carriage House to add two single-user public restrooms and welcome center area for visitors to the NC Cremont Farm.</td>
<td>TBD</td>
<td>CALS / VACS</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development underway. Study will be necessary to assess development within historic property for Department of Historic Resources.</td>
</tr>
<tr>
<td>Smithfield Equine Complex</td>
<td>Develop new facilities for Equine Complex on Plantation Road including covering outdoor arena, add bleachers, restrooms, announcer-robot, fencing, quarantine facility.</td>
<td>TBD</td>
<td>Private</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Turkey Farm Processing Building Repair</td>
<td>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 included in the FY 23 Budget, but removed due to scope concerns.</td>
<td>$140,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Moore Farm Barn ERSO Repairs</td>
<td>This highly visible and prominent barn is for many purposes such as working of sheep, lambing facility, hay storage, emergency storage for weather affected crops, and equipment and parts storage. The condition of the roof and siding in pass, failing to provide the necessary weather protection. Without mitigation soon, this condition will deteriorate to the point of loss.</td>
<td>TBD</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Moore Farm Shed ERSO Repairs</td>
<td>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 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.</td>
<td>TBD</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Alson H. Smith AREC - Repair and parking</td>
<td>Existing asphalt parking lot and driveways are deteriorating and in need of repaving.</td>
<td>$56,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Construction planned in FY 2023.</td>
</tr>
<tr>
<td>Tidewater AREC - Repair and parking</td>
<td>Existing asphalt parking lot and driveways are deteriorating and in need of repaving.</td>
<td>$150,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Construction planned in FY 2023.</td>
</tr>
<tr>
<td>Southern Piedmont AREC Modular Housing</td>
<td>Addition of a new 4-bedroom modular employee housing unit at Southern Piedmont AREC.</td>
<td>TBD</td>
<td>CALS / VACS</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Middleburg AREC - Exterior Repairs</td>
<td>Using on several buildings is in need of repair or replacement due to advanced age. Annex (0811), Foreman Barn (0801), Milking Barn and Vises House (0806), Loafing Barn (0810), Clinic/Admin Building (0823), Stable (0808). Barn in shears (0798) are deteriorating and in need of repair or replacement. Barn House and Machinery Shed (0805) is in need of structural repairs, basement of Annex (0812) roads and drainage corrections.</td>
<td>$156,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
</tbody>
</table>

**Buildings & Grounds Committee**

**ESTIMATED TOTAL PROJECT COST**

**FUND SOURCE**

**PROJECT TEAM**

**CONTRACT COMPLETION DATE**

**PROJECT STATUS**

ChemCo 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 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.

**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 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.

Zero Waste consultant team updating plan, assessing current waste stream, and evaluating alternate composting methods.

Scope and budget development.
<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Smithfield Equine Classroom Renovations, Phase 2</td>
<td>Completion of building envelope repairs, restroom repairs, accessibility improvements.</td>
<td>$110,000</td>
<td>Maintenance Reserve, CALS</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>REAL TIME KINEATIC (RTK)</td>
<td>This project installs real-time kinematic (RTK) systems at select ARECs. RTK enables the AREC to implement precision agriculture research practices by increasing the precision of standard GPS from an accuracy of 2-4 meters to &lt;2 centimeters.</td>
<td>$213,000</td>
<td>CALS / VAES</td>
<td>CALS IT Join Four Tribble</td>
<td>Complete</td>
<td>All systems installed, tested, and operational.</td>
</tr>
<tr>
<td>Kentland 5G Proposal (Smartfarm Project)</td>
<td>A project has been initiated to potentially install new technology in fields that is similar to 5G. It has better exterior coverage and security management. The proposal is to study the effectiveness of this equipment for supporting data-intensive agriculture, animal-based rewards. This initial project will be to create a 5G/5GMS testbed at Kentland Farm.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bandwidth and Internet Connectivity Improvements</td>
<td>Identify and implement bandwidth upgrade opportunities across campus locations to enhance research and address emerging requirements.</td>
<td>Varius</td>
<td>CALS / VAES</td>
<td>CALS IT Division of IT</td>
<td>Ongoing</td>
<td></td>
</tr>
<tr>
<td>ARS Voice-Over Internet Protocol (VOIP) Conversion</td>
<td>Convert legacy telephone systems at all ARECs to unified Voice Over Internet Protocol (VOIP) systems to match the voice service on campus.</td>
<td>$75,000</td>
<td>CALS / VAES</td>
<td>CALS IT Division of IT</td>
<td>On Hold</td>
<td>VDF conversion projects have been completed at 8 of the 11 ARECs. Remaining locations include Hampton Roads, Reynolds Homestead, and Southwest Virginia AREC’s where the existing telephone service has been adequate. The existing service contract expires in two years and the Division of IT has announced that a new phone contract has been awarded to replace the existing system. It does not make sense to migrate any additional offices to the legacy system, and instead wait to migrate these to the new Zoom offering once it becomes available.</td>
</tr>
<tr>
<td>Network Equipment Upgrades and Expansion</td>
<td>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 of new &quot;backend&quot; equipment that will be installed on campus to manage and operate the networks at the ARECs and other extension offices.</td>
<td>$1,140,000</td>
<td>CALS / VAES</td>
<td>CALS IT</td>
<td>Ongoing</td>
<td>All equipment has finally arrived. Equipment is being configured, shipped, and installed. These network installations at the ARECs and VCE locations will take much of the year to complete. Installations have been completed at 5 of the ARECs and work included the installation of 20 new switches, 80 wireless access points, and various other network equipment and cabling.</td>
</tr>
<tr>
<td>Eastern Virginia AREC/Field Wireless (Smartfarm Project)</td>
<td>Installation of new technology, similar to Wi-Fi but with better exterior coverage and security management, is 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 networks.</td>
<td>$53,000</td>
<td>CALS / VAES</td>
<td>CALS IT District IT Internet</td>
<td>On Hold</td>
<td>After further analysis, this project may not provide the wireless coverage as expected. In addition, costs for new devices (current equipment is not compatible) and annual service charges currently tied to a temporary pause in the project pending clarification from the vendor. Discussions with all stakeholders continue. However, it is expected that this project will most likely be cancelled.</td>
</tr>
<tr>
<td>ARS AUDITIUAL (AV) Upgrades - Phase 2</td>
<td>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.</td>
<td>$18,000</td>
<td>CALS / VAES</td>
<td>CALS IT Vendor: Lee Norman and Sons</td>
<td>Ongoing</td>
<td>This phase is reviewing the potential for adding AV systems to Eastern Virginia, Eastern Shore, Middleburg, Shenandoah, and Southwest Virginia AREC offices. Systems specification are being compiled and orders submitted.</td>
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INFORMATION TECHNOLOGY (IT) PROJECTS
Updated October 2023 - None information is in bold.

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<td>Convert legacy telephone systems at all ARECs to unified Voice Over Internet Protocol (VOIP) systems to match the voice service on campus.</td>
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<td>CALS / VAES</td>
<td>CALS IT Division of IT</td>
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</table>
UPDATE ON AGRICULTURAL FACILITIES

Alan L. Grant, Ph.D.
Dean of the College of Agriculture and Life Sciences

June 6, 2023
NON-CAPITAL PROJECT PROGRESS - COMPLETED

AHS Jr. AREC Fuel Containment Pit Repairs and Sealing

Eastern Virginia AREC Experiment Building Repairs

Southern Piedmont AREC Packhouse Restroom Repairs

Kentland Farm Paving Plan
Spring 2023

Kentland Farm Roadway Maintenance and Repaving
NON-CAPITAL PROJECT PROGRESS

Key Projects In Progress

• Tidewater AREC Water System Improvements, Phase 2
• Southwest AREC Ram Barn Shed Extension
• Fume hood replacement at SPAREC, HRAREC, and ESAREC
• Pavement / Parking Repairs at TAREC, AHS AREC, SPAREC, Alphin-Stuart Arena, Kentland Farm
• PFRC BIQL Emergency Generator and New Autoclave Installation
• SPAREC Modular Housing project

17 projects in CONSTRUCTION
24 projects in DESIGN
12 projects in PLANNING

ATTACHMENT I

Southwest AREC Ram Barn Shed Extension in progress

AREC Fume Hood to be replaced

Proposed 4-bedroom modular housing unit
CAPITAL PROJECT PROGRESS - CONSTRUCTION

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

• BP 1 Swine: 99% Complete - sitework corrections required.
• BP 2 Beef Nutrition (99%) and Kentland Hay Shed (100%): 99% complete - Concrete repairs required.
• BP 3 Turkey and Broiler Grow-out Facilities: 99% Complete - watering system installation to be completed.
• BP 4 Equine and Equipment Storage: 100% complete. Animal occupancy planned for July.
• BP 5 Three Hay Sheds and Demolition: Bidding early summer. 18+ month project duration.
• BP 6 Final Demolition: to be combined with BP 5.
## Capital Project Progress - Planning

<table>
<thead>
<tr>
<th>Agency 229 Six-year Capital Outlay Plan for 2024-2030</th>
<th>357,700 GSF</th>
<th>$213 M</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Improve Center Woods Complex (CNRE)</td>
<td>25,900 GSF</td>
<td>$17 M</td>
</tr>
<tr>
<td>2. System-Wide AREC Improvements, Phase 1</td>
<td>71,000 GSF</td>
<td>$30 M</td>
</tr>
<tr>
<td>3. Replace Plant and Animal Facilities at Glade Road</td>
<td>64,200 GSF</td>
<td>$41 M</td>
</tr>
<tr>
<td>4. HABB-II Plant and Environmental Sciences Research Facility</td>
<td>94,000 GSF</td>
<td>$91 M</td>
</tr>
<tr>
<td>5. Renew Animal and Livestock Facilities, Phase 2</td>
<td>102,600 GSF</td>
<td>$34 M</td>
</tr>
</tbody>
</table>

**Six-Year Capital Outlay Plan Development**  
*September – February*

**Board Plan Review & Approval**  
*March*

**Capital Budget Submission to State**  
*June*

**State Capital Budget Review and Approval**

**Detailed project work**

**Board Ratification of Plan**
Technology and Connectivity

- AREC and VCE Network Equipment Upgrade and Expansion Project
  - All General Assembly funded equipment has finally arrived
  - Installations have started and will continue for much of the year
  - Five ARECs were recently upgraded with a total of 20 new switches and 80 new wireless access points
Technology and Connectivity

- AREC audiovisual upgrades
  - Phase I (larger ARECs) complete
  - Phase II focusing on smaller offices and continued enhancements to larger offices
  - Processing orders for five ARECs