Committee Minutes

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, April 9, 2024

Open Session Tour
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Tuesday, April 9, 2024 at 8:45 a.m. in open session in Lobby of the Inn at Virginia Tech and Skelton Conference Center to depart for a tour. A quorum of the Committee was present. Chair Harris presided.

Board members present: Greta Harris (Committee Chair), David Calhoun, Sandy Cupp Davis, Bill Holtzman, Tish Long, Jeff Veatch, Janice Austin (A/P Faculty Representative), and Will Storey (Undergraduate Student Representative)

University personnel and guests: Bob Broyden, Greg Canaday, Alisha Ebert, Mark Gess, Ricky Johnston, Mark Owczarski, Justin Sheppard, John Tarter, Jon Clark Teglas, and Anthony Watson.

1. Tour of the Hokie Stone Quarry: The Committee toured the Hokie Stone Quarry. The random ashlar patterned stone facades (Hokie Stone) used on campus buildings are constructed of native limestone quarried and surfaced by university personnel. Virginia Tech’s quarry operations produce some 60 tons of Hokie Stone per week, or about 3,000 tons per year. A single ton of the stone will cover about 24 to 30 square feet on a building. The 40-acre quarry provides 85 percent of the stone used in campus construction.

The tour concluded at 10:15 a.m.

Open Session Meeting
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Tuesday, April 9, 2024 at 10:30 a.m. in open session in 2124 Gilbert Place. A quorum of the Committee was present. Chair Harris presided.

Board members present: Ed Baine (Rector), Greta Harris (Committee Chair), David Calhoun, Carrie Chenery, Sandy Cupp Davis, Nancy Dye, Bill Holtzman, Tish Long, Chris Petersen, John Rocovich, Jeff Veatch, Janice Austin (A/P Faculty Representative), LaTawnya Burleson (Staff Representative), Joseph Merola (Faculty Representative), Will Storey (Undergraduate Student Representative), and Emily Tirrell (Graduate Student Representative)
2. Welcome and Introductions: The Committee Chair convened the meeting and provided welcoming remarks.

3. Consent Agenda: The Committee approved the items listed on the Consent Agenda.
   
a. Minutes from the November 2023 Committee Meeting: The Committee approved the minutes from its November 2023 meeting.

b. Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority: The Committee reviewed for approval a resolution to appoint a joint representative to the Montgomery Regional Solid Waste Authority (Authority). The Authority consists of five directors who are responsible for its management and operation. One director is appointed by each of the four political subdivisions, and the other director is appointed jointly by all governing bodies. Sharon G. Scott currently serves as a joint representative and has expressed her desire to continue in that role. The local political subdivisions and Virginia Tech desire to re-appoint Sharon G. Scott, as the joint representative for a term of four years.

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

c. Acceptance of the Capital Project Status Report: The Committee accepted the quarterly capital project status report. The current active portfolio of projects includes 18 authorized projects -- active and complete (within a 1-year warranty phase), has a total value of approximately $1.1 billion, adds approximately 1.3 million gross square feet (GSF) of new construction, and renovates nearly 300,000 gross square feet of existing space.

4. Discussion of Facilities Condition Assessments and Facility Maintenance Programs: The Committee participated in a discussion of facilities condition assessments and facility maintenance programs led by Bob Broyden, Interim 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. 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; 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 an 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. The university’s facilities management function strives to ensure assets are available for service and continuity of operations.

5. **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.

6. **Update from the Vice President of Campus Planning, Infrastructure, and Facilities:** The Committee received an update from Bob Broyden, Interim Vice President of Campus Planning, Infrastructure, and Facilities.

7. **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 11:46 a.m.

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Open Session Agenda

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, April 9, 2024

Bus departs for tour at 8:45 a.m.
from the Lobby of the Inn at Virginia Tech and Skelton Conference Center.

**Agenda Item** Reporting Responsibility
# 1. Tour of the Hokie Stone Quarry Bob Broyden

Open session meeting resumes at 10:30 a.m.
in Room 2124 Gilbert Place.

**Agenda Item** Reporting Responsibility
2. Welcome and Introductions Greta Harris

3. Consent Agenda
   a. Minutes from the November 2023 Committee Meeting
   b. Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority
   c. Quarterly Capital Construction Status Report

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

**Agenda Item** Reporting Responsibility
# 4. Discussion of Facilities Condition Assessments and Facility Maintenance Programs Bob Broyden

# 5. Update on Agricultural Facilities Alan Grant

6. Update from the Vice President of Campus Planning, Infrastructure, and Facilities Bob Broyden

7. Future Agenda Items and Closing Remarks Greta Harris
Tour of the Hokie Stone Quarry

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, April 9, 2024

The Committee will tour the Hokie Stone Quarry. The random ashlar patterned stone facades (Hokie Stone) used on campus buildings are constructed of native limestone quarried and surfaced by university personnel. Virginia Tech’s quarry operations produce some 60 tons of Hokie Stone per week, or about 3,000 tons per year. A single ton of the stone will cover about 24 to 30 square feet on a building. The 40-acre quarry provides 85 percent of the stone used in campus construction. To ensure variations in color, the university purchases the remaining 15 percent from a farm in Montgomery County, but Virginia Tech quarry employees process it.
Consent Agenda

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, April 9, 2024

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

Consent Agenda

a. Minutes from the November 2023 Committee Meeting

* b. Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority

c. Quarterly Capital Construction Status Report

* Requires full Board approval.
CAPITAL PROJECT STATUS REPORT
PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE OF THE BOARD OF VISITORS

April 9, 2024
18 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 CONSTRUCTION EXECUTIVE SUMMARY (PROGRESSIVE)

**Date Prepared:** 11 MAR 2024

<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>Dietrick Renovation</td>
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<td>Student Wellness Improvements</td>
<td>70.0</td>
<td>56.3</td>
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<td>204,000</td>
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<tr>
<td>Football Locker Room Renovations</td>
<td>5.9</td>
<td>4.1</td>
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<td>Undergraduate Science Laboratory Building</td>
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<td>Innovation Campus – Academic Building</td>
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<td>Life, Health, Safety, Accessibility, &amp; Code Compliance</td>
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<tr>
<td>Livestock &amp; Poultry Research Facilities (Ph I) – Various Locations</td>
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<td>18.2</td>
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<td>Mitchell Hall (Replace Randolph Hall) (Note 485)</td>
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<tr>
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<td>TBD</td>
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<tr>
<td>Improve Center Woods Complex (Planning – Design Only)</td>
<td>846K</td>
<td>TBD</td>
<td>TBD</td>
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</tr>
</tbody>
</table>

**Totals** $1,155.5, 1,290,356, 266,609

### LEGEND

- **Design**
- **Construction**
- **Warranty**
- **Construction Phase TBD**
- **SDv: Schematic Design**
- **PDv: Preliminary Design**
- **WDv: Working Drawings**

**NOTE 1** Non-Virginia Tech project

**NOTE 2** Building Envelope Improvements includes 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 3** 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 4** Multiple GMPs results in design/construction overlap (fast track)

**NOTE 5** Estimated construction completion of Mitchell Hall is December 2027
IN DESIGN
PROJECTS IN DESIGN

New Business Building

Student Life Village (Phase I)*

Improve Center Woods Complex

Virginia Tech-Carilion School of Medicine Expansion* (Roanoke, VA)
## PLANNING: NEW BUSINESS BUILDING

**CM at Risk – BOV Authorized**

<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 2023 FY23</th>
<th>CY 2023 FY24</th>
<th>CY 2024 FY24</th>
<th>CY 2025 FY25</th>
<th>CY 2026 FY26</th>
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<tr>
<td>New Business Building (Planning – Design Only)</td>
<td>$8.0</td>
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<td>92,295</td>
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<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
<td>Q2 Jul-Sep</td>
<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
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</tbody>
</table>

**Status**

- In Preliminary Design Phase

**Next Actions**

- Targeting BOV Construction Authorization in fall 2024

**Legend**

- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
- PD= Preliminary Design
- WD= Working Drawings

Designer: Moseley

Builder: Kjellstrom & Lee
STUDENT LIFE VILLAGE – PHASE 1
CM at Risk – BOV Authorized

Status
- Schematic design phase initiated

Next Actions
- Finalize procurement of CMaR preconstruction services contract

<table>
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<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($M)</th>
<th>CONSTRUCTION BUDGET ($M)</th>
<th>NEW CONST. (GSF)</th>
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Legend:
- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
- PD= Preliminary Design
- WD= Working Drawings

Designer: Little/Boudreaux
Builder: TBD
**VIRGINIA TECH-CARILION SCHOOL OF MEDICINE EXPANSION**

CM at Risk – BOV Authorized

**Status**

- Procurement of A/E for design services underway

**Next Actions**

- Finalize procurement of A/E and begin initial design
- Procure CMaR preconstruction services contract

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<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($M)</th>
<th>CONSTRUCTION BUDGET ($M)</th>
<th>NEW CONSTR (GSF)</th>
<th>RENOVATION (GSF)</th>
<th>FY23</th>
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<th>FY25</th>
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<tr>
<td>Virginia Tech-Carilion School of Medicine Expansion (Planning-Design Only)</td>
<td>$9.0</td>
<td>TBD</td>
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<td>Apr-Jun</td>
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<td>Jan-Mar</td>
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</table>

**Legend**

- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
- PD= Preliminary Design
- WD= Working Drawings

Designer: TBD

Builder: TBD
# IMPROVE CENTER WOODS COMPLEX

**Design-Bid-Build – BOV Authorized**

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**Status**

- Procurement of A/E for design services underway

**Next Actions**

- Finalize procurement of A/E and begin initial design

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**PROJECT TITLE**

- Improve Center Woods Complex

**TOTAL PROJECT BUDGET ($M)**

- $846K

**CONSTRUCTION BUDGET ($M)**

- TBD

**NEW CONST. (GSF)**

- TBD

**RENOVATION (GSF)**

- TBD

**LEGEND**

- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
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<tr>
<td>Improve Center Woods Complex</td>
<td>$846K</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Q3 Jan-Mar</td>
<td>Q1 Jul-Sep</td>
<td>Q2 Oct-Dec</td>
<td>Q3 Jan-Mar</td>
</tr>
</tbody>
</table>

**Designer:** TBD

**Builder:** TBD

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UNDER CONSTRUCTION
ACTIVE CONSTRUCTION PROJECTS

- Transit Center (ToB project)
- Undergraduate Science Lab Building
- HITT Hall
- Livestock & Poultry Research Facilities (Various Locations)
- Mitchell Hall
- Student Wellness Improvements
- Football Locker Room
- Building Envelope Improvements
- Innovation Campus Academic Building (Alexandria, VA)
**BUILDING ENVELOPE IMPROVEMENTS**

*Design-Bid-Build – BOV Authorized*

### Status
- Envelope improvements planned for four buildings
- Construction on first building 87% complete

### Next Actions
- First building targeted for completion summer 2024

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**PROJECT TITLE** | **TOTAL PROJECT BUDGET ($M)** | **CONSTRUCTION BUDGET ($M)** | **NEW CONST. (GSF)** | **RENOVATION (GSF)** |
--- | --- | --- | --- | --- |
Building Envelope Improvements | $47.2 | $41.9 | N/A | |

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<tr>
<th>PROJECT TITLE</th>
<th><strong>CY 2023</strong></th>
<th><strong>CY 2024</strong></th>
<th><strong>CY 2025</strong></th>
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</table>

**Legend**
- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
- PD= Preliminary Design
- WD= Working Drawings

*Designer: WJE*  
*Builder: Carolina Restoration*
## Status

- Construction 92% complete

## Next Actions

- Anticipated completion summer 2024

### Project Title: HITT Hall

<table>
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<th></th>
<th>TOTAL PROJECT BUDGET ($M)</th>
<th>CONSTRUCTION BUDGET ($M) (Contract Value)</th>
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### Legend

- **Design**: TBD
- **Construction Phase**: TBD
- **SD**: Schematic Design
- **PD**: Preliminary Design
- **WD**: Working Drawings

**Designer**: Cooper Cary  
**Builder**: WM Jordan
STUDENT WELLNESS IMPROVEMENTS
CM at Risk – BOV Authorized

Status

► Construction 80% complete

Next Actions

► Anticipated completion July 2024

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<tr>
<td>Student Wellness Improvements</td>
<td>$70.00</td>
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<td>Q2</td>
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</table>

LEGEND

Design  Construction  Warranty  Construction Phase TBD  SD= Schematic Design  PD= Preliminary Design  WD= Working Drawings

Designer: Cannon Design

Builder: Whiting-Turner
### FOOTBALL LOCKER ROOM RENOVATIONS

**Design-Bid-Build – BOV Authorized**

#### Status

- Construction 47% complete

#### Next Actions

- Anticipated completion summer 2024

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**Football Locker Room Renovation**

- **Budget:** $5.9 M
- **Construction Budget:** $4.1 M
- **New Const. (GSF):** 4,200

#### Construction Timeline

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
<th>CY 2026</th>
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</thead>
<tbody>
<tr>
<td>Football Locker Room Renovation</td>
<td>Q3 Jan-Mar</td>
<td>Q3 Jul-Sep</td>
<td>Q3 Jul-Sep</td>
<td>Q3 Jul-Sep</td>
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<td>Q4 Apr-Jun</td>
<td>Q4 Oct-Dec</td>
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</tbody>
</table>

**Legend**

- **Design**
- **Construction**
- **Warranty**
- **Construction Phase TBD**
- **SD= Schematic Design**
- **PD= Preliminary Design**
- **WD= Working Drawings**

**Designer:** HNTB  
**Builder:** Thor
## Status

- Construction 80% complete

## Next Actions

- Anticipated completion summer 2024

### Undergraduate Science Laboratory Building

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($M)</th>
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</table>

**Designer:** ZGF  
**Builder:** Skanska

### Project Timeline

<table>
<thead>
<tr>
<th></th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
<th>FY26</th>
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<td>Oct-Dec</td>
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**Legend:**
- **Design**: Design
- **Construction**: Construction
- **Warranty**: Warranty
- **SD= Schematic Design**: SD= Schematic Design
- **PD= Preliminary Design**: PD= Preliminary Design
- **WD= Working Drawings**: WD= Working Drawings
## Status

- Construction 79% complete

## Next Actions

- Anticipated completion late fall 2024/early 2025

### Table: Capital Project Status Report

<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>
<th>CY 2023 FY23</th>
<th>CY 2024 FY24</th>
<th>CY 2025 FY25</th>
<th>CY 2026 FY26</th>
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</thead>
<tbody>
<tr>
<td>Innovation Campus – Academic Building</td>
<td>$302.1</td>
<td>$226.3</td>
<td>299,733</td>
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<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
<td>Q1 Jul-Sep</td>
<td>Q2 Oct-Dec</td>
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</tbody>
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### Legend

- **Design**
- **Construction**
- **Warranty**
- **Construction Phase TBD**
- **SD= Schematic Design**
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---

*Designer: Smith Group
Builder: Whiting-Turner*
LIFE, HEALTH, SAFETY, ACCESSIBILITY, & CODE COMPLIANCE
Design-Bid-Build – State Authorized

Status
► Multi-phase execution
► Priority 1 Derring Steps Elevators construction 95% complete
► Priority 2 Green Link in construction procurement
► Priority 3 Green Link under design

Next Actions
► Anticipated Phase 1 completion in summer 2024

<table>
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<th>PROJECT TITLE</th>
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<tr>
<td>Life, Health, Safety, Accessibility, &amp; Code</td>
<td>$10.4</td>
<td>$3.9</td>
<td>N/A</td>
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LEGEND
- Design
- Construction
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Designer: Various
Builder: Various
# LIVESTOCK & POULTRY RESEARCH FACILITIES (PHASE I, BID PACKAGE 5)

## Design-Bid-Build – State Authorized

### Status

- Bid package #5: 1st of 3 barns under construction (10% complete)

### Next Actions

- Complete 3 barns in sequence

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

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($M)</th>
<th>CONSTRUCTION CONTRACT VALUE ($M)</th>
<th>NEW CONSTRUCT. (GSF)</th>
<th>RENOVATION (GSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Livestock &amp; Poultry Research Facilities (Ph I) – Various Locations</td>
<td>$25.3</td>
<td>$18.2</td>
<td>129,100</td>
<td></td>
</tr>
</tbody>
</table>

### Designer:

Spectrum Design

### Builder:

Various

---

**Legend**

- Design
- Construction
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- Construction Phase TBD
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- PD= Preliminary Design
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---
## MITCHELL HALL
CM at Risk – State Authorized

### Status
- Interior abatement activities underway
- GMP-1 (demolition & early site package) mobilization scheduled for 13 MAY 2024
- GMP-2 (building construction) working drawings being finalized

### Next Actions
- Procure GMP-2 construction contract (spring/summer 2024)

### Table: Capital Project Status Report

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<tr>
<td>Mitchell Hall (Replace Randolph Hall)</td>
<td>$292.3</td>
<td>$229.3</td>
<td>285,500</td>
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<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
</tbody>
</table>

### Legend
- Design
- Construction
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- Construction Phase TBD
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**Designer:** Perkins & Will

**Builder:** Skanska
TRANSIT CENTER
Design-Bid-Build – Town of Blacksburg (ToB)

Status
► Construction 85% complete

Next Actions
► Anticipated completion in summer 2024
► Anticipated operational use in fall 2024

<table>
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<tr>
<td>Multi-Modal Transit Facility</td>
<td>N/A</td>
<td>N/A</td>
<td>13,606</td>
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<tr>
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</table>

Designer: Wendel (ToB Contract)
Builder: WM Schlosser (ToB Contract)
PROJECTS RECENTLY COMPLETED
PROJECTS UNDER WARRANTY

- Data & Decision Sciences Building
- Corps Leadership & Military Sciences Building
- Dietrick Renovation & Spirit Plaza
- New Upper Quad Residence Hall
- Slusher Hall Repairs
- Livestock & Poultry Research Facilities (Various Locations)
DIETRICK RENOVATION
(And Quillen Spirit Plaza)
Design-Bid-Build – BOV Authorized
COMPLETE

Status

► Project complete

Next Actions

► Close out project

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
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<tr>
<td>Dietrick Renovation</td>
<td>$9.1</td>
<td>$6.8</td>
<td>6,298</td>
<td>11,960</td>
<td>Q3 Jan-Mar</td>
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</table>

Legend:
- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
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- WD= Working Drawings

Designer: Hanbury
Builder: Branch Builds
DATA & DECISION SCIENCES BUILDING
CM at Risk – State Authorized
COMPLETE

Status
► Project complete

Next Actions
► Close out project

<table>
<thead>
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<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
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<td>Data &amp; Decision Sciences Building</td>
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LEGEND
- Design
- Construction
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- Construction Phase TBD
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- WD= Working Drawings

Designer: Moseley
Builder: Kjellstrom & Lee
CORPS LEADERSHIP & MILITARY SCIENCE BUILDING
CM at Risk – BOV Authorized
COMPLETE

Status
► Project complete

Next Actions
► Close out project

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
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<th>FY 24</th>
<th>FY 25</th>
<th>FY 26</th>
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<tbody>
<tr>
<td>Corps Leadership &amp; Military Science Building</td>
<td>$52.0</td>
<td>$37.9</td>
<td>65,428</td>
<td>8,449</td>
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</table>

LEGEND
- Design
- Construction
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Designer: Clark-Nexen
Builder: Vannoy
NEW UPPER QUAD RESIDENCE HALL
CM at Risk – BOV Authorized
COMPLETE

Status
► Project complete

Next Actions
► Close out project

PROJECT TITLE
New Upper Quad Residence Hall

TOTAL PROJECT BUDGET (SM)
$42.0

CONSTRUCTION BUDGET (SM)
$32.0

NEW CONST. (GSF)
56,650

RENOVATION (GSF)

<table>
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<tr>
<td>New Upper Quad Residence Hall</td>
<td>$42.0</td>
<td>$32.0</td>
<td>56,650</td>
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</tbody>
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LEGEND
- Design
- Construction
- Warranty
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- WD= Working Drawings

Designer: Clark-Nexen
Builder: Vannoy
SLUSHER HALL REPAIRS
Emergency – BOV Authorized
COMPLETE

Status
► Project complete

Next Actions
► Close out project

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<td></td>
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<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
<td>Q2 Jul-Sep</td>
<td>Q1 Oct-Dec</td>
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<tr>
<td>Slusher Hall</td>
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<td>$5.6</td>
<td>38,000</td>
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</tbody>
</table>

LEGEND
Design
Construction
Warranty
Construction Phase TBD
SD= Schematic Design
PD= Preliminary Design
WD= Working Drawings

Designer: Gresham Smith
Builder: Kesler
LIVESTOCK & POULTRY RESEARCH FACILITIES (PHASE I, BID PACKAGES 1-4)

Design-Bid-Build – State Authorized

COMPLETE

Status

► Construction complete on bid packages 1 - 4

Next Actions

► Close out of bid packages 1 - 4

<table>
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LEGEND

Design  Construction  Warranty  Construction Phase TBD  SD= Schematic Design  PD= Preliminary Design  WD= Working Drawings

Designer: Spectrum Design

Builder: Various
DEFINITIONS

AUTHORIZATION:
► 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.

DELIVERY METHODS:
► Schematic Design Phase = 0% to approximately 20% design complete
► Preliminary Design Phase = Approximately 20% to approximately 50% design complete
► Working Drawing Phase = Approximately 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 team (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.
GOAL:
• Ensure assets are available for service and continuity of operations.

OBJECTIVES:
• Identify and conduct maintenance work in a manner such that no asset is unexpectedly removed from service because of deferred maintenance.

• Provide a 10-year forward looking horizon for assets that will require major refurbishment, renovation, or replacement.
ASSET OVERVIEW

ACRES
15,684

BUILDINGS
851 Structures
12,400,000 GSF

SIDEWALKS & PATHWAYS
54 Miles

UTILITY TUNNELS
15 Miles
ASSET TIMELINE

BUILT PRE-1960
- Simple & Solid
- Design-Bid-Build delivery
- Single use
- Limited repurposing
- Preservation Focus

BUILT 1960-1995
- Focus on fast & lowest cost
- Introduction of more complex MEPs
- Design-Bid-Build delivery
- Highest frequency of repairs & maintenance
- Largely single purpose use
- Limited repurposing

1995 - PRESENT
- Rapid increase of MEP complexity
- Rapid increase of cost intensity
- Multi-program use
- Elevated code compliance
- Multi delivery methods
- Improving quality
CONTINUOUS CYCLE

Assessing Assets

Updating Workplans

Identifying Requirements

Setting Priorities
**CONDITION ASSESSMENT PROGRAM**

**TEAM MEMBERS**

- Asset Assessors and Engineers
- Code Compliance Teams
- Deployed Trades Teams
- Energy Management Teams
- Grounds Teams
- Housekeeping Teams
- Building Users (Faculty, Staff, Students)
- Building Manager/Reps
- Space Reps
- Accessibility Partners
- Environmental Health and Safety Partners
- Public Safety Partners (VTPD, Emergency Management)
- Sustainability Partners
- Transportation Partners

**SYSTEMS & DATA**

- FCA (Facilities Condition Assessment System)
- FCI (Facilities Condition Index)
- Facilities Geographic Information System
- Work Management System
- Building Automation Systems
- Accounting System
- Space Inventory System
- SCADA (Supervisory Control and Data Acquisition)
- Utility Consumption
- Budgeted and Actual Expenditures
- Indirect Cost Study
- Course Scheduling Feedback
- SPOT (Student Perceptions of Teaching) Feedback
- Employee Climate Survey Feedback
- Return on Physical Assets Peer Assessment (Sightlines)
IDENTIFYING REQUIREMENTS
TIME SENSITIVITY
- Less than 1 year
- 1 to 2 years
- 2-6 years
- 6+ years

ASSET CONTINUITY
- Within or Beyond 10 Years

MISSION IMPACT
- Academic
- VCE/VAES
- Auxiliary
- Administration

WORK SATURATION
- Subcontractor Capacity
- Facility Schedules
- Work Density
- Academic Disruption
WORKPLANS

PREVENTIVE MAINTENANCE

CORRECTIVE MAINTENANCE

NON-CAPITAL REPAIRS AND RENOVATIONS

CAPITAL RENOVATIONS

Daily Inspections

<$25K

$25K - $3M

>$3M
SPENDING COMPARISON

VT - 6YR AVG
- Utility Systems: 27%
- Envelope and Foundation: 30%
- Building Systems: 27%
- Code Compliance: 3%
- Space Refresh: 13%

Peers - 6YR AVG
- Utility Systems: 22%
- Envelope and Foundation: 6%
- Building Systems: 33%
- Code Compliance: 10%
- Space Refresh: 29%

AAU - 6YR AVG
- Utility Systems: 19%
- Envelope and Foundation: 11%
- Building Systems: 35%
- Code Compliance: 6%
- Space Refresh: 29%

Source: Gordian, 2024
CLOSING THOUGHTS AND DISCUSSION
UPDATE ON AGRICULTURAL FACILITIES

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

April 9, 2024
NON-CAPITAL PROJECT PROGRESS - COMPLETED

Shenandoah Valley AREC
Security Camera Installation

PFRC BIQL Autoclave

Hampton Roads AREC Signage
NON-CAPITAL PROJECT PROGRESS - COMPLETED

MIDDLEBURG AREC

Annex Freeze Damage Repairs

Stable Repairs

Employee House 815

HVAC Replacement

Interior Repairs

Plumbing Repairs
NON-CAPITAL PROJECT PROGRESS - COMPLETED

ALSON H. SMITH JR. AREC

Cold Storage Room Repairs

Building Chiller Replacement

Lab Equipment Installation

SOUTHERN PIEDMONT AREC

Multiple Building Disposals

Curing Barn Repairs

Greenhouse Ctrl Upgr.
NON-CAPITAL PROJECT PROGRESS

Key Projects Under Construction

• Hahn Horticulture Garden Marquee
• Middleburg AREC Clinic HVAC Replacement (MR)
• Tidewater AREC Main Office and Lab Roof Replacement (MR)
• Southern Piedmont AREC New Storage Building
• Reynolds Homestead Forest Resources Research Center Signage

Hahn Horticulture Garden Marquee
NON-CAPITAL PROJECT PROGRESS

Key Projects in Design or Bid phase:

- Southern Piedmont Main Building LED lighting conversion
- Etgen Large Animal Learning Center Arena Upgrades
- Southern Piedmont AREC Modular Housing
- Southern Piedmont AREC Irrigation Pond Repairs
- Shenandoah Valley AREC Mass Timber Facility Planning Study
- Shenandoah Valley AREC Hay Storage Hoop Barn
- Tidewater AREC Security System Installation
- Hampton Roads Greenhouse Complex Expansion
  - USDA-funded Greenhouse
  - ODU Orchid Collection Greenhouse
  - Federal Excess Greenhouse
NON-CAPITAL PROJECT PROGRESS

Requested projects awaiting funding approval
• Moore Farm Barn Repairs (MR)
• Moore Farm Shed Repairs (MR)
• Judging Pavilion Repairs (MR)
• Tidewater AREC Interior Repairs (MR)
• Washington Street Greenhouse 9 Cooling Pad System repairs (MR)
• Alson H. Smith Jr. AREC Controlled Environment Facility
• Eastern Virginia AREC Drying Room Renovation
CAPITAL PROJECT PROGRESS - CONSTRUCTION

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

- **BP 1 Swine**: Complete and in use.
- **BP 2 Beef Nutrition and Kentland Hay Shed**: Complete and in use.
- **BP 3 Turkey and Broiler Grow-out Facilities**: Complete.
- **BP 4 Equine and Equipment Storage**: Complete and in use.
- **BP 5 Three Hay Sheds and Final Demolition**: Under Construction at Smithfield site. Four buildings demolished.
CAPITAL PROJECTS
Updates through March 31, 2024

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): 4,510 SF barn at Vet-Med for palpation and breeding instruction.</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 certificates of occupancy. Minor corrective work at the Metabolic Research Lab is ongoing.</td>
</tr>
</tbody>
</table>

PROJECTS IN DESIGN

<table>
<thead>
<tr>
<th>PROJECT INITIATION / PLANNING STAGE</th>
<th>PROJECT NAME</th>
<th>CAPITAL PROJECTS</th>
<th>PROJECT TEAMSC</th>
<th>PROJECT DESCRIPTION</th>
<th>ESTIMATED TOTAL PROJECT COST</th>
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<tbody>
<tr>
<td>2024-2030 6-Year Capital Outlay Plan</td>
<td>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 and Poultry Research Facilities, Phase I</td>
<td>$213,000,000</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Following approval of the 2024-2020 Capital Outlay Plan by the Board of Visitors, program and cost validation is underway for selected projects. Two submitted for state funding consideration summer 2023. Others held for future requests.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System-Wide AREC Improvements, Phase I</td>
<td>Review and expand aging and deteriorating AREC facilities. Phase I project to address entirety of capital renewal needs at Eastern Shore and Southern Piedmont ARECs.</td>
<td>$25,200,000</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Phase 1 capital budget request submitted June 2023.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replace Plant and Animal Facilities at Glade Road</td>
<td>Relocate existing facilities away from the Glade Road Research Facility.</td>
<td>$41,000,000</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Re-reviewing program and budget with CPIF for future budget submission.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Plant &amp; Animal Environmental Sciences Research Facility (HABB-II)</td>
<td>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.</td>
<td>$40,000,000</td>
<td>Capital Outlay</td>
<td>TBD</td>
<td>TBD</td>
<td>Re-programming effort completed with a $53.5M construction target. Draft feasibility report is under review.</td>
<td></td>
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</tr>
</tbody>
</table>

NON-CAPITAL PROJECTS
Updates through March 31, 2024

PROJECTS COMPLETED SINCE LAST REPORT

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
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<tbody>
<tr>
<td>Minor Projects (&lt;$500,000)</td>
<td>Middletown AREC Greenhouse Controls Upgrade Sherando Valley AREC Security Camera Installation Apple Smith’s AREC New Lab Equipment Connections Apple Smith’s AREC Cold Room Repairs Middletown AREC House 815 Exterior Repairs Middletown AREC House 816 HVAC Replacement Middletown AREC House 818 Plumbing Repairs Middletown AREC House 812 HVAC Replacement</td>
<td>$189,000</td>
<td>CASF/ VANS</td>
<td>Various</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Beef Barn Repairs</td>
<td>Repairs in 812 Annex due to frozen pipe bursting during 2022 holiday break. Installation of modernized controls for greenhouse. Addition of security cameras to monitor historic area. Frozen connections for new lab equipment. Replace refrigeration equipment and controls for two cold storage rooms. Pipe and painting interior wall and ceiling damage. Replace aging hot pipes. Replace various components of plumbing systems throughout the house. Replace aging hot pipes.</td>
<td>$1,064,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>Fall 2023</td>
<td>Work is complete.</td>
</tr>
</tbody>
</table>

PROJECTS IN CONSTRUCTION

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Improve Kentland Facilities, Phase II</td>
<td>Applied Reproduction Facility (APR): 4,510 SF barn at Vet-Med for palpation and breeding instruction. BioTech &amp; Teaching and Research (BCTR) Facility: 3,000 SF classroom building and 5,100 SF demonstration areas at Event Center on Plantation Road. Metabolic Research Laboratory (MBL): 11,300 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 certificates of occupancy. Minor corrective work at the Metabolic Research Lab is ongoing.</td>
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<td>PROJECT NAME</td>
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</tr>
<tr>
<td>Prices Fork Quarantine Lab Autodrive Installation</td>
<td>Installation of new 3-phase electric service and new autodrive for more reliable sterilization process.</td>
<td>$165,000</td>
<td>CALS</td>
<td>Fall 2023</td>
<td>Work is complete.</td>
<td></td>
</tr>
<tr>
<td>Alson H. Smith Jr. AREC Chilled Water System repairs</td>
<td>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.</td>
<td>$488,000</td>
<td>Maintenance Reserve</td>
<td>Fall 2023</td>
<td>Work is complete.</td>
<td></td>
</tr>
<tr>
<td>Middleburg AREC Stable exterior repairs</td>
<td>Existing roof and windows are leaking. Several stalls are unusable due to leaks. Several windows are rotten.</td>
<td>$314,000</td>
<td>Maintenance Reserve</td>
<td>Spring 2024</td>
<td>Work is substantially complete</td>
<td></td>
</tr>
<tr>
<td>Southern Piedmont AREC - Curing Building Repairs</td>
<td>Repair/replace siding and five deteriorated lean-to equipment storage sheds attached to four tobacco curing barns (0800A, 0800B, 0801C, 0801D)</td>
<td>$480,000</td>
<td>Maintenance Reserve</td>
<td>March 2024</td>
<td>Construction is complete.</td>
<td></td>
</tr>
<tr>
<td>Kentland Dairy Center Water Hammer Repair</td>
<td>Water hammer problem has developed in well-supplied non-potable water system at the Dairy Center. Initial troubleshooting could not resolve the problem so a consultant is being engaged to provide further evaluation and design the corrective measures.</td>
<td>$16,000</td>
<td>LPA</td>
<td>January 2024</td>
<td>Work is complete.</td>
<td></td>
</tr>
<tr>
<td>Hahn Garden Pavilion LED Lighting Retrofit</td>
<td>Convert existing lighting to LED.</td>
<td>$11,000</td>
<td>Energy Action Plan</td>
<td>March 2024</td>
<td>Project is complete.</td>
<td></td>
</tr>
</tbody>
</table>

**PROJECTS IN CONSTRUCTION**

- **Minor Projects ($<25k) ARECs only**
  - Reynolds Homestead AREC Exterior Repairs: Signage installations complete at Tidewater, Southwest Virginia, Alson H. Smith Jr., Eastern Virginia, Middleburg, Southern Piedmont, Shenandoah Valley, and Eastern Shore ARECs. 4 of 5 new signs have been installed at Hampton Roads. Final Design approved for Reynolds Homestead and contracting is underway.
  - Shenandoah Valley AREC Working Pen Installations: Work is in progress.
  - Middleburg AREC Laundry Hookup: Installation and supplemental water heater to meet usage demands. Project is complete.

- **AREC Exterior Signage Upgrades**
  - Installation of 2 new exterior signs at each AREC with refreshed design to match current branding. Project is complete.
  - Work is underway.

- **Middleburg AREC Clinic/Admin Building HVAC repairs**
  - Two existing heat pump systems have failed during critical and ongoing research projects. Project is to connect to public water system with 2-inch water line, add backflow preventer, and re-connect non-potable water line to well for irrigation purposes. Project is underway.

- **Tidewater AREC Main Office and Lab Roof Replacement**
  - Existing roof is leaking causing damage to main lobby interior walls and classroom area. Project is to connect to public water system with 2-inch water line, add backflow preventer, and re-connect non-potable water line to well for irrigation purposes. Project is underway.

- **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 backflow preventer, and re-connect non-potable water line to well for irrigation purposes. Project is underway.

- **Employee House 318 Repairs**
  - Misc. interior repairs needed to 5 bedroom house on Southgate Drive to refurbish for future occupancy. Project is complete.

- **NI&S Communication antennae installation and power connection**
  - New antennae to be installed at the Beef Barn and HABIL for enhanced coverage along Stroubles Creek research bed. Project is complete.
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<tr>
<td>Minor Projects &lt;$25,000 each</td>
<td></td>
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</tr>
<tr>
<td>Tidewater AREC Peanut Storage Shed</td>
<td>960 square foot prefabricated structure for field storage of harvested peanuts. Power and data connections for new GPS and Wi-Fi tower. Add additional power generator to serve circuits for critical lab freezers. Replace an aging fume hood in labs 103-104. May need to be replaced and temporary structures constructed in between growing seasons.</td>
<td>$135,000</td>
<td>CALS / VAES</td>
<td>Various</td>
<td>In Progress</td>
<td></td>
</tr>
<tr>
<td>Tidewater AREC RTK Tower Installation</td>
<td></td>
<td></td>
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<tr>
<td>Southern Piedmont Lab Freezer Generator Installation</td>
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<tr>
<td>Eastern Shore AREC Fume Hood Replacement</td>
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<tr>
<td>Virginia Roads AREC Fume Hood Replacement</td>
<td></td>
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<tr>
<td>Southern Piedmont AREC Storage Building</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Tidewater AREC Security System Installation</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heth Farm Shed and Silo Demolition</td>
<td>Demolish two structures that are currently unsafe and operationally unnecessary</td>
<td>TBD</td>
<td>CALS</td>
<td>TBD</td>
<td>TDB</td>
<td>In Progress</td>
</tr>
<tr>
<td>Southern Piedmont AREC Irrigation Pond Dam Repairs</td>
<td>Dismantling pipe through existing embankment has failed due to corrosion of bottom of the barrel. Pipe needs to be replaced and dam reconstructed in between growing seasons.</td>
<td>TBD</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
<tr>
<td>Judging Pavilion Repairs</td>
<td>Exterior and interior demolition followed by installation of new roofing, doors, windows, HVAC system, lighting, a covered walkway and exterior paint. This work was originally included in LPRF Phase I, but removed due to scope concerns.</td>
<td>$342,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
<tr>
<td>Campbell Arena Repairs</td>
<td>New enclosed of the existing open-air open structure constructed of steel panel siding over steel girts and posts. This work was originally included in LPRF Phase I, but removed due to scope concerns. Existing stucco work is to be replaced and doors and windows replaced.</td>
<td>$83,000</td>
<td>Maintenance Reserve, CALS</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
<tr>
<td>Eastern Shore AREC Lab 08B Renovation</td>
<td>Upfit of existing space to accommodate new research lab.</td>
<td>$100,000</td>
<td>CALS</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
<tr>
<td>Etgen Learning Center Animal Arena Upgrades</td>
<td>Modifications to the Etgen Arena to provide pens and short-term housing for heifers. Upgrades include new calf pens, bedded pack pens, overhead curtains, and power upgrades.</td>
<td>TBD</td>
<td>CALS</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
<tr>
<td>Compost Facility (to support main campus &amp; surrounding farms)</td>
<td>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.</td>
<td>$1,823,000</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
<tr>
<td>Turkey Farm Processing Building Repair</td>
<td>Interior Demolition followed by installation of new cold-formed steel interior partitions, new doors and windows, fiberglass reinforced plastic paneling and epoxy painted floors. This work was originally included in LPRF Phase 1, but removed due to scope concerns.</td>
<td>$140,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
<tr>
<td>Minor Farm Barn (OGC) Repairs</td>
<td>This highly visible and prominent barn is for many purposes such as lambing of sheep, housing facility, hay bale storage, emergency storage for weather-affected crops, and equipment and parts storage. The condition of the roof and siding is poor, failing to provide the necessary weather protection. Without irrigation soon, the condition will deteriorate to the point of loss.</td>
<td>TBD</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>In Progress</td>
</tr>
</tbody>
</table>
## College of Agriculture Life Sciences (CALS) Projects Status Report

### BUILDINGS AND GROUNDS COMMITTEE

**April 9, 2024**

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
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<tr>
<td>Moore Farm Shed 2020 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 addition 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>Alston H. Smith AREC - Repair paving and parking</td>
<td>Existing asphalt paving lot and drives are deteriorating and in need of repaving.</td>
<td>$56,000</td>
<td>CALS/VAES</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Construction funds requested for FY 2024.</td>
</tr>
<tr>
<td>Tidewater AREC - Repair paving and parking</td>
<td>Existing asphalt paving lot and drives are deteriorating and in need of repaving.</td>
<td>$150,000</td>
<td>CALS/VAES</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development. Construction funds requested for FY 2024.</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>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Middleburg AREC - General Repairs</td>
<td>Existing asphalt paving lot and drives are deteriorating and in need of repaving.</td>
<td>$158,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Shenandoah Valley AREC - Repair/Replace Sheep Barn</td>
<td>Sheep Barn (0864) has rotten posts at ground level and leaking roof. The building should be evaluated for repair or replacement.</td>
<td>$76,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Scope and budget development.</td>
</tr>
<tr>
<td>Shenandoah Valley AREC - Mass Timber Multi-Purpose Building</td>
<td>Construct a new 4,000 gross square feet multi-purpose facility near the historic McCormick Farm site to serve as an educational facility (seating up to 150 people) and self-service visitor center with restrooms. When not in use for events the space could be used for large equipment storage, workshop, or short term animal holding areas. This facility is envisioned to be built using mass timber construction method and will be case study for development of similar projects.</td>
<td>TBD</td>
<td>AGCDM</td>
<td>TBD</td>
<td>TBD</td>
<td>Architect's proposal for planning effort is under review.</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, annoucner stand, 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>Southern Piedmont Main Building LED Conversion</td>
<td>Lighting system is failing in main building and is in need of replacement.</td>
<td>TBD</td>
<td>CALS/VAES</td>
<td>TBD</td>
<td>TBD</td>
<td>Funding is confirmed, but final scope, cost, and project management method is still to be determined</td>
</tr>
<tr>
<td>Greenhouse 9 Cooling System Repairs</td>
<td>Repair or replacement needed for cooling pad system in greenhouse due to failing infrastructure.</td>
<td>$36,000</td>
<td>Maintenance Reserve</td>
<td>TBD</td>
<td>TBD</td>
<td>Funding has been requested.</td>
</tr>
<tr>
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</tr>
<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>T&amp;D</td>
<td>T&amp;D</td>
<td>Scope and budget development.</td>
</tr>
</tbody>
</table>
UPDATE FROM THE VICE PRESIDENT OF CAMPUS PLANNING, INFRASTRUCTURE, AND FACILITIES

PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE

Bob Broyden, Interim Vice President for Campus Planning, Infrastructure, and Facilities

April 9, 2024
PREPARING FOR TRANSITION

- Enhancing Operational Continuity
- Updating Business Processes
- Enhancing Divisional Procedures
- Streamlining & Aligning Activities