Open Session Minutes

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 10, 2024

Open Session Tour
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Monday, June 10, 2024 at 3:30 p.m. in open session at the New Classroom Building to depart for a tour. A quorum of the Committee was present. Chair Harris presided.

Board members present: Ed Baine (Rector), Greta Harris (Committee Chair), Carrie Chenery, Sandy Cupp Davis, Nancy Dye, Brad Hobbs, Bill Holtzman, Donald Horsley, Chris Petersen, Janice Austin (A/P Faculty Representative), Will Storey (Undergraduate Student Representative), and Emily Tirrell (Graduate Student Representative)


a. Undergraduate Science Laboratory Building: The Undergraduate Science Laboratory consists of approximately 102,400 gross square feet of new construction at the intersection of West Campus Drive and Perry Street. The purpose of the facility is to provide adequate laboratory and classroom space to accommodate student interest and demand for science laboratory courses. The new facility also complements the adjacent Classroom Building completed in 2016. First included on the 2014-2020 Capital Outlay Plan, this $90.4 million project is funded entirely by state resources.

b. Life, Health, Safety, Accessibility, and Code Compliance: Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the commonwealth. Three high-priority accessibility initiatives were identified by the university in the Life, Health, Safety, Accessibility, and Code Compliance category of the 2018-2024 Capital Outlay Plan. The university received total project

* Requires Full Board Approval  
# Discusses Enterprise Risk Management Topic(s)  
+ Discusses Strategic Investment Priorities Topic(s)
funding of $10.4 million in Life, Health, Safety, Accessibility, and Code Compliance funds from the state for three priority projects.

c. Transit Center: The Town of Blacksburg and the university entered a memorandum of understanding in 2012 and 2014 so that the town could develop the center to improve transit operations. The Town received grant funding from the Federal Transit Administration for the project and will operate the center through its department, Blacksburg Transit. The Transit Center is comprised of a new building, bus shelters, bus loop configurations to the east, west, and southwest, and will feature sustainable elements. The associated bus loops in the North Academic District of campus are aimed at improving the transit and alternate transportation services and safety of those services to Virginia Tech students, faculty, staff, and community. The center will centralize transit transfers and serve multiple modes of alternative transportation. The Transit Center is strategically located along the Infinite Loop and will provide administrative space for transit operations, multi-use meeting space, and information services.

d. Hitt Hall: Located in the North Academic District, the site is off West Campus Drive in an area bounded by Perry Street to the north, Derring Hall to the south, Bishop-Favrao Hall to the east, and the Classroom Building to the northwest. The approximately 100,000 gross square feet, three-story facility is organized in two wings around a central circulation link and collaboration space. Hitt Hall will provide an expansion of the Myers-Lawson School of Construction, add critical dining capacity, and include general assignment academic spaces in a new combined program facility for Virginia Tech. The $85 million project is split funded with $25 million in gifts, $13 million in internal lease funding, and $47 million in auxiliaries funding. This project was first proposed as part of the 2018-2024 Capital Outlay Plan.

The tour concluded at 5:15 p.m.

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Attachment F
Tuesday, June 11, 2024

Open Session Meeting
The Buildings and Grounds Committee of the Board of Visitors of Virginia Polytechnic Institute and State University convened on Tuesday, June 11, 2024 at 10:00 a.m. in open session in Classroom Building, Room 230. A quorum of the Committee was present. Chair Harris presided.

Board members present: Greta Harris (Committee Chair), Carrie Chenery, Sandy Cupp Davis, Bill Holtzman, and John Rocovich

University personnel and guests: President Tim Sands, Simon Allen, Nick Bahnkem, Lynsay Belshe, Leanne Bokinskie, Bob Broyden, Brock Burroughs, Joe Cooley, Jeff Earley, Alisha Ebert, Mark Gess, Dan Givens, Alan Grant, Robert Jackson, Chris Kiel, Lu Liu, Rachel Miles, Liza Morris, Nam Nguyen, Kelly Oaks, Saonee Sarker, Brennan Shepard, Ken Smith, Dan Sui, Dwyn Taylor, Jon Clark Teglas, Anthony Watson, and Lisa Wilkes

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 April 2024 Committee Meeting: The Committee approved the minutes from its April 2024 meeting.

   b. Resolution to Approve an Appointment to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority: The Committee approved an appointment to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority. The university is requesting approval to appoint Dwyn Taylor, Vice President for Campus Planning, Infrastructure, and Facilities, as the Virginia Tech representative and member on the Blacksburg-Virginia Polytechnic Institute Sanitation Authority Board of Directors.

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

   c. Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority: The Committee approved an appointment to the Montgomery Regional Solid Waste Authority. The university is requesting approval to appoint Dwyn Taylor, Vice President for Campus Planning, Infrastructure, and Facilities, as the Virginia Tech representative and member on the Montgomery Regional Solid Waste Authority Board of Directors.

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

* Requires Full Board Approval
# Discusses Enterprise Risk Management Topic(s)
+ Discusses Strategic Investment Priorities Topic(s)
d. Resolution to Approve an Appointment to the New River Valley Regional Water Authority: The Committee approved an appointment to the New River Valley Regional Water Authority. The university is requesting approval to appoint Dwyn Taylor, Vice President for Campus Planning, Infrastructure, and Facilities, as the Virginia Tech representative and member on the New River Valley Regional Water Authority Board of Directors.

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

e. Resolution to Approve the Demolition of University Buildings No. 0438 and No. 0440A: The Committee approved an authorization to demolish university buildings no. 0438 and no. 0440A. The university requests approval to demolish buildings no. 0438 (Poultry Isolation Building) and No. 0440A (Cinder Block Chicken House) located at the Vet Med Research Center on Prices Fork Road, in Blacksburg, Montgomery County, Virginia. Constructed in 1955, these two buildings were formerly used for poultry teaching and research programs. The buildings have fallen into disrepair and are beyond their useful life. The university desires to demolish the structures prior to further deterioration. 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 to the full Board for approval.

f. Acceptance of the Quarterly Capital Project Status Report: The Committee accepted the quarterly capital project status report. The current active portfolio of projects includes 16 authorized projects -- active and complete (within a 1-year warranty phase), has a total value of approximately $1.1 billion, adds approximately 1.3 million gross square feet of new construction, and renovates nearly 255,000 gross square feet of existing space.

4. Design Preview for the New Business Building: The Committee approved the design preview for the New Business Building. The Pamplin College of Business is nationally recognized for its business programs and is integral to Virginia Tech’s delivery of instruction and research programming in support of the commonwealth. The New Business Building project will provide a consolidated location for the college, allowing the college to amplify program impact, as well as couple with the Data and Decision Sciences building to complete the academic facilities of the Global Business and Analytics Complex (GBAC). Once complete, GBAC will be a transformative academic and physical addition to the North Academic District. The prominent site, on the corner of Prices Fork Road and West Campus Drive, presents the university a valuable opportunity to create a new campus gateway at
this previously undeveloped primary intersection. The project is in preliminary design with working drawings anticipated to start in early 2025 and construction substantial completion anticipated for fall 2027. The project planning authorization, approved at the April 4, 2022 Board of Visitors meeting, includes $8 million of private gifts. The total project cost will be supported by a combination of private gifts, non-general fund cash, and university non-general fund debt.

5. Design Preview and Review for the Life, Health, Safety, Accessibility, and Code Compliance – Priority 3: The Committee approved the joint design preview and review for the Life, Health, Safety, Accessibility, and Code Compliance – Priority 3 project. Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the commonwealth. This project is the third of three high-priority accessibility initiatives identified by the university in the Life, Health, Safety, Accessibility, and Code Compliance category of the 2018-2024 Capital Outlay Plan. The project is scoped to create a new accessible route on an existing primary pedestrian corridor to support equal access to key Education and General funded facilities in the North Academic District. The project is in the working drawings phase with construction anticipated to begin late fall of 2024 and to attain substantial completion summer of 2025. The university received total project funding of $10.4 million in Life, Health, Safety, Accessibility, and Code Compliance funds from the state for three priority projects, $1.86 million of which will be applied to this third priority project.

6. Discussion of Physical Accessibility Process and Progress: The Committee participated in a discussion of physical accessibility process and progress with Bob Broyden, Interim Vice President for Campus Planning, Infrastructure, and Facilities, and Kelly Oaks, Associate Vice President for Equity and Accessibility. The discussion focused on physical accessibility in context, the ‘community of practice’ process, prioritization, funding options, integration within facilities planning, and recent progress. Over the last two years, the university has completed 20 physical accessibility projects totaling $5.3 million. Another 13 projects, valued at $22.7 million, are funded and underway.

7. 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. Organizational,
the University Building Official reports to the Board of Visitors through the Buildings and Grounds Committee.

8. **Update on the Utilities Master Plan:** The Committee received an update on the Utilities Master Plan from Nam Nguyen, Executive Director of Energy and Utilities. 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.

9. **Future Agenda Items and Closing Remarks:** The Committee recognized two retiring administrators. Alan Grant will retire after 15 years in his role as Dean of the College of Agriculture and Life Sciences. Bob Broyden, Interim Vice President for Campus Planning, Infrastructure, and Facilities will retire after over 30 years serving his alma mater. Chair Harris closed the meeting by providing brief comments of reflection and points of progress regarding her time on the Board and the Committee.

The meeting adjourned at 11:34 a.m.

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Open Session Agenda

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 10, 2024
Tour departs at 3:30 p.m. from the Classroom Building.

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<thead>
<tr>
<th>Agenda Item</th>
<th>Reporting Responsibility</th>
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<tr>
<td>1. Tour of North Academic District Construction Sites</td>
<td>Bob Broyden</td>
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<tr>
<td>a. Undergraduate Science Laboratory Building</td>
<td>Dwyn Taylor</td>
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<td>b. Life, Health, Safety, Accessibility, and Code Compliance</td>
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<td>c. Transit Center</td>
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<td>d. Hitt Hall</td>
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Tuesday, June 11, 2024
Open session meeting begins at 10:00 a.m. in the Classroom Building, Room 230.

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<td>Greta Harris</td>
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<td>3. Consent Agenda</td>
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<td>f. Acceptance of the Quarterly Capital Project Status Report</td>
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<td>4. Design Preview for the New Business Building</td>
<td>Liza Morris</td>
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<td>6. Discussion of Physical Accessibility Process and Progress</td>
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<td>Kelly Oaks</td>
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<td>8. Update on the Utilities Master Plan</td>
<td>Nam Nguyen</td>
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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 10, 2024
Tour departs at 3:30 p.m. from the Classroom Building.

Agenda Item
1. Tour of North Academic District Construction Sites
   a. Undergraduate Science Laboratory Building
   b. Life, Health, Safety, Accessibility, and Code Compliance
   c. Transit Center
   d. Hitt Hall

Reporting Responsibility
Bob Broyden
Dwyn Taylor

Tuesday, June 11, 2024
Open session meeting begins at 10:00 a.m. in the Classroom Building, Room 230.

Agenda Item
2. Welcome and Introductions

Reporting Responsibility
Greta Harris

3. Consent Agenda
   a. Minutes from the April 2024 Committee Meeting
   b. Resolution to Approve an Appointment to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority
   * c. Resolution to Approve an Appointment to the Montgomery Regional Solid Waste Authority
   * d. Resolution to Approve an Appointment to the New River Valley Regional Water Authority
   * e. Resolution to Approve the Demolition of University Buildings No. 0438 and No. 0440A
   f. Acceptance of the Quarterly Capital Project Status Report

Reporting Responsibility
Greta Harris
Bob Broyden

4. Design Preview for the New Business Building
   Liza Morris

   Liza Morris

6. Discussion of Physical Accessibility Process and Progress
   Bob Broyden
   Kelly Oaks

7. Annual Report of the University Building Official
   Chris Kiel

8. Update on the Utilities Master Plan
   Nam Nguyen

9. Future Agenda Items and Closing Remarks
   Greta Harris

Attachment F
Tour of North Academic District Construction Sites
Undergraduate Science Laboratory Building

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 10, 2024

Project Summary
The Undergraduate Science Laboratory consists of approximately 102,400 gross square feet of new construction at the intersection of West Campus Drive and Perry Street. The purpose of the facility is to provide adequate laboratory and classroom space to support growth in Virginia Tech’s undergraduate science programs. Having last constructed a science laboratory building in the early 2000s, the university faces difficulty growing enrollment in these areas with the existing supply of space. The new facility also complements the adjacent Classroom Building completed in 2016. First included on the 2014-2020 Capital Outlay Plan, this project is funded entirely by state resources.

Timeline
Construction Start: Spring 2022
Target Completion: Summer 2024

Build Method
CM at Risk

Gross Square Feet
102,366

Contractor
Skanska

Current Phase
Under construction

A/E
ZGF
Tour of North Academic District Construction Sites  
Life, Health, Safety, Accessibility, and Code Compliance  

BUILDINGS AND GROUNDS COMMITTEE  
Monday, June 10, 2024

Project Summary
Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the commonwealth. Three high-priority accessibility initiatives were identified by the university in the Life, Health, Safety, Accessibility, and Code Compliance category of the 2018-2024 Capital Outlay Plan. The university received total project funding of $10.4 million in Life, Health, Safety, Accessibility, and Code Compliance funds from the state for three priority projects.

- Priority 1 - a pair of elevator towers in the North Academic District.
- Priority 2 - an American with Disabilities Act (ADA)-compliant pathway in the North Academic District.
- Priority 3 - ADA-compliant pathway near Patton Hall.

Additional Design Features and Elements
- New bench seating
- Hokie Stone
- Transparent glazed glass
- New planters

Timeline: (Construction Start/Target Completion)
- Priority 1 - Spring 2023/Spring 2024
- Priority 2 - Spring 2024/Fall 2024
- Priority 3 - Fall 2024/Spring 2025

Build Method
Design-Bid-Build

A/E
- Priority 1 - Quinn Evans
- Priority 2 - Sasaki
- Priority 3 - Sasaki

Gross square feet
N/A
Current phase
- Priority 1 - Under construction
- Priority 2 - Under construction
- Priority 3 - In design

Contractor
- Priority 1 - W. M. Jordan Company
- Priority 2 - DCI/Shires, Inc.
- Priority 3 - TBD
Tour of North Academic District Construction Sites
Transit Center

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 10, 2024

Project Summary
The Town of Blacksburg and the university entered a memorandum of understanding in 2012 and 2014 so that the town could develop the center to improve transit operations. The Town received grant funding from the Federal Transit Administration for the project and will operate the center through its department, Blacksburg Transit. The Transit Center is comprised of a new building, bus shelters, bus loop configurations to the east, west, and southwest, and will feature sustainable elements. The associated bus loops in the North Academic District of campus are aimed at improving the transit and alternate transportation services and safety of those services to Virginia Tech students, faculty, staff, and community. The center will centralize transit transfers and serve multiple modes of alternative transportation. The Transit Center is strategically located along the Infinite Loop and will provide administrative space for transit operations, multi-use meeting space, and information services.

Additional Design Features and Elements
- New bench seating
- Hokie Stone
- Bike Repair

Timeline: (Construction Start/Target Completion)
Construction Start: Spring 2021
Target Completion: Summer 2024

Build Method
Design-Bid-Build

A/E
Wendel

Gross square feet
13,606

Current phase
Under Construction

Contractor
W.M. Schlosser
Tour of North Academic District Construction Sites
Hitt Hall

BUILDINGS AND GROUNDS COMMITTEE

Monday, June 10, 2024

Project Summary
On Aug. 30, 2021, the Virginia Tech Board of Visitors reviewed the design, and approved funding for, a new cutting-edge facility in the North Academic District of the Blacksburg campus. Hitt Hall will provide an expanded physical presence for the College of Engineering's Myers-Lawson School of Construction as well as add critical dining and academic spaces.

Detailed in the university's master plan, Hitt Hall will be located near West Campus Drive on a site amongst the existing New Classroom Building, Derring Hall, and Bishop-Favrao Hall. The project will support the master plan’s vision by installing a critical section of the Infinite Loop at the site, which is part of a two-mile fully accessible pathway that will link all campus districts.

The approximately 100,000-gross-square-foot multipurpose facility will provide Myers-Lawson School of Construction with innovation and discovery spaces in the building's east wing.

Hitt Hall will feature a 600-seat full-service multienvenue dining facility on two floors of the building’s west wing, flexible general assignment classrooms on the third floor, and open collaboration zones throughout. The dining capacity added by Hitt Hall, with its nine distinct dining venues, will increase and more evenly distribute dining services for students, faculty, and staff on the Blacksburg campus.

The building’s unique two-story Innovation Lab will provide program opportunities for temporary and large-scale student-based projects. And the surrounding exterior Innovation Plaza will provide additional space for outdoor demonstrations, teaching, and dining.

Hitt Hall’s classrooms, collaboration spaces, and restrooms will be ADA-compliant, to be consistent with all new construction at Virginia Tech.

Hitt Hall will be built in a collegiate gothic expression and a palette of materials consistent with Campus Design Principles and buildings on the Blacksburg campus, including signature Hokie Stone. Two outdoor terraces are integrated seamlessly into the architecture.
Philanthropy
Philanthropy plays a crucial role in Hitt Hall’s realization. The building is named in recognition of a multimillion dollar gift from the Hitt Family Foundation Inc. The Hitt family’s company, Hitt Contracting Inc., is one of the nation’s largest general contractors and has employed Virginia Tech graduates for years.

Sustainability Features
Hitt Hall will be constructed to obtain or exceed LEED Silver Certification. Environmentally friendly building components include energy-efficient HVAC systems and windows, water-efficient plumbing, refillable water bottle stations, and building materials secured through sustainable procurement practices.

Timeline
Construction Start: Spring 2022
Target Completion: Summer 2024

Build Method
CM at risk

Gross Square Feet
101,000

Contractor
W. M. Jordan Company

Current Phase
Under construction

A/E
Cooper Carry
Consent Agenda
BUILDINGS AND GROUNDS COMMITTEE
Tuesday, June 11, 2024

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

Consent Agenda

a. Minutes from the April 2024 Committee Meeting

* b. Resolution to Approve an Appointment to the Blacksburg-Virginia Polytechnic Institute Sanitation Authority

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

* d. Resolution to Approve an Appointment to the New River Valley Water Authority

* e. Resolution to Approve the Demolition of University Buildings No. 0438 and No. 0440A

f. Acceptance of the Quarterly Capital Project Status Report

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

June 11, 2024
16 authorized projects -- active and complete (w/in 1-year warranty phase)
Total value of ~$1.1B
Generates ~1.3M gross square feet (GSF) of new construction
Renovates nearly 255K GSF of existing space
<table>
<thead>
<tr>
<th>Project Title</th>
<th>Total Project Budget ($M)</th>
<th>Construction Budget ($M)</th>
<th>New Const. (GSF)</th>
<th>Renovation (GSF)</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
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<tbody>
<tr>
<td>Corp's Leadership &amp; Military Science Building</td>
<td>52.0</td>
<td>37.9</td>
<td>65,428</td>
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<td>New Upper Quad Residence Hall</td>
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<td>32.0</td>
<td>56,650</td>
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<td>Slusher Hall Repairs</td>
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<td>5.6</td>
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<td>38,000</td>
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<td>Building Envelope Improvements (Note 2)</td>
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<td>HITT Hall</td>
<td>85.0</td>
<td>65.5</td>
<td>101,000</td>
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<td>Student Wellness Improvements</td>
<td>70.0</td>
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<td>204,000</td>
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<td>Football Locker Room Renovation</td>
<td>5.9</td>
<td>4.1</td>
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<td>4,200</td>
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<td>Transit Center (Note 1)</td>
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<td>13,606</td>
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<td>Undergraduate Science Laboratory Building</td>
<td>90.4</td>
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<td>120,746</td>
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<td>Innovation Campus – Academic Building</td>
<td>302.1</td>
<td>226.3</td>
<td>299,733</td>
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<td>Life, Health, Safety, Accessibility, &amp; Code Compliance (Note 3)</td>
<td>10.4</td>
<td>3.9</td>
<td></td>
<td>N/A</td>
<td></td>
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<td>Livestock &amp; Poultry Research Facilities – Phase I – Various Locations</td>
<td>25.3</td>
<td>18.2</td>
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<td>129,100</td>
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<tr>
<td>Mitchell Hall (Note 4&amp;5)</td>
<td>292.3</td>
<td>229.3</td>
<td>285,500</td>
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<tr>
<td>New Business Building (Planning – Design Only)</td>
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<td>Student Life Village – Phase I (Planning – Design Only)</td>
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<td>TBD</td>
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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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<tr>
<td>Improve Center Woods Complex (Planning – Design Only)</td>
<td>846K</td>
<td>TBD</td>
<td>TBD</td>
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<tr>
<td>Totals</td>
<td>$1,067.4</td>
<td>1,164,058</td>
<td>254,649</td>
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**LEGEND**
- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
- PD= Preliminary Design
- WD= 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 June 2024) followed by Green Link Priorities 2 (currently underway) & 3 (currently in design)

**NOTE 4** Multiple GMP results in design/construction overlap (fast track)

**NOTE 5** Estimated completion date 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

### Status
- Preliminary Design underway
- CMaR pre-construction services contract underway

### Next Actions
- Targeting BOV Construction Authorization in fall 2024

### Table: Project Budget and Status

<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>CY 2023</th>
<th>FY24</th>
<th>CY 2024</th>
<th>FY25</th>
<th>CY 2025</th>
<th>FY26</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>(Construction Contract Value)</td>
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<td></td>
<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
<td>Q1 Jul-Sep</td>
<td>Q2 Oct-Dec</td>
<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
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<tr>
<td>New Business Building (Planning – Design Only)</td>
<td>$8.0 TBD</td>
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</table>

### Designer: Moseley

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

Status

► Schematic Design underway
► CMaR in procurement

Next Actions

► Finalize procurement of CMaR preconstruction services contract

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET (SM)</th>
<th>CONSTRUCTION BUDGET (SM)</th>
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<th>RENOVATION (GSF)</th>
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<th>CY 2025</th>
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<tr>
<td></td>
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<td>FY23 Q3 Jan-Mar</td>
<td>FY24 Q1 Apr-Jun</td>
<td>FY25 Q2 Jul-Sep</td>
<td>FY26 Q3 Jan-Mar</td>
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<td>FY23 Q4 Apr-Jun</td>
<td>FY24 Q2 Oct-Dec</td>
<td>FY25 Q3 Jan-Mar</td>
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<td>FY26 Q4 Apr-Jun</td>
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<td>FY23 Q2 Oct-Dec</td>
<td>FY24 Q3 Jan-Mar</td>
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</tbody>
</table>

Student Life Village – Phase I (Planning – Design Only) $19.5 TBD TBD

Designer: Little/Boudreaux
Builder: TBD

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

<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>
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<td>Q3 Jan-Mar</td>
<td>Q4 Apr-Jun</td>
<td>Q1 Jul-Sep</td>
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<td>Virginia Tech-Carilion School of Medicine Expansion (Planning – Design Only)</td>
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LEGEND

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

Designer: TBD  Builder: TBD

Attacment F
## PLANNING: IMPROVE CENTER WOODS COMPLEX
Design-Bid-Build – BOV Authorized

### Status
- Schematic Design underway

### Next Actions
- Continue design efforts

### Table: Project Budget and Construction Budget

<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>FY23</th>
<th>FY24</th>
<th>FY25</th>
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<td>Q4</td>
<td>Q2</td>
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<td></td>
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<td>Jan-Mar</td>
<td>Apr-Jun</td>
<td>Jul-Sep</td>
<td>Oct-Dec</td>
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<td></td>
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<td>Q1</td>
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<td></td>
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<td>Jan-Mar</td>
<td>Apr-Jun</td>
<td>Jul-Sep</td>
<td>Oct-Dec</td>
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<td>Improve Center Woods Complex (Planning – Design Only)</td>
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</table>

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

---

Virginia Tech Division of Campus Planning, Infrastructure, and Facilities | Capital Project Status Report, June, 2024

Designer: TBD

Builder: TBD
ACTIVE CONSTRUCTION PROJECTS

- Transit Center (ToB project)
- Undergraduate Science Laboratory Building
- HITT Hall
- Life, Health, Safety, Accessibility, & Code Compliance
- Livestock & Poultry Research Facilities – Phase I (Various Locations)
- Mitchell Hall
- Student Wellness Improvements
- Football Locker Room Renovation
- 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 98% complete

### Next Actions
- Complete Lane Stadium and begin project close-out
- Issue IFB for next building (Torgersen Hall)

---

**PROJECT TITLE**

<table>
<thead>
<tr>
<th>TOTAL PROJECT BUDGET (M)</th>
<th>CONSTRUCTION BUDGET (M)</th>
<th>NEW CONST. (GSF)</th>
<th>RENOVATION (GSF)</th>
<th>CY 2023</th>
<th>CY 2024</th>
<th>CY 2025</th>
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<tr>
<td>Building Envelope Improvements</td>
<td>$47.2</td>
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**LEGEND**
- **Design**
- **Construction**
- **Warranty**
- **Construction Phase TBD**
- **SD= Schematic Design**
- **PD= Preliminary Design**
- **WD= Working Drawings**

Designer: WJE  
Builder: Carolina Restoration
HITT HALL
CM at Risk – BOV Authorized

Status
► Construction 97% complete

Next Actions
► Complete construction and begin project close-out

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
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<th>NEW CONST. (GSF)</th>
<th>RENOVATION (GSF)</th>
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<tbody>
<tr>
<td>HITT Hall</td>
<td>$85.0</td>
<td>$65.5</td>
<td>101,000</td>
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LEGEND
- Design
- Construction
- Warranty
- 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 95% complete

Next Actions
► Complete construction and begin project close-out

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($)</th>
<th>CONSTRUCTION BUDGET ($)</th>
<th>NEW CONST. (GSF)</th>
<th>RENOVATION (GSF)</th>
<th>FY23 FY24 FY25 FY26</th>
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<tbody>
<tr>
<td>Student Wellness Improvements</td>
<td>$70.0</td>
<td>$56.3</td>
<td>204,000</td>
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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 RENOVATION

**Design-Bid-Build – BOV Authorized**

#### Status

- Construction 90% complete

#### Next Actions

- Complete construction and begin project close-out

---

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET (SM)</th>
<th>CONSTRUCTION BUDGET (SM)</th>
<th>NEW CONST. (GSF)</th>
<th>RENOVATION (GSF)</th>
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<tbody>
<tr>
<td>Football Locker Room Renovation</td>
<td>$5.9</td>
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<table>
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<th>FY23 Q3</th>
<th>FY23 Q4</th>
<th>FY24 Q1</th>
<th>FY24 Q2</th>
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<th>FY25 Q1</th>
<th>FY25 Q2</th>
<th>FY26 Q1</th>
<th>FY26 Q2</th>
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</thead>
</table>

**Legend**

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

**Designer:** HNTB  
**Builder:** Thor
UNDERGRADUATE SCIENCE LABORATORY BUILDING
CM at Risk – State Authorized

Status
► Construction 91% complete

Next Actions
► Complete construction and begin project close-out

<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>FY24 Q1 Jul-Sep</th>
<th>Q2 Oct-Dec</th>
<th>FY25 Q3 Jan-Mar</th>
<th>Q4 Apr-Jun</th>
<th>FY26 Q1 Jul-Sep</th>
<th>Q2 Oct-Dec</th>
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<tbody>
<tr>
<td>Undergraduate Science Laboratory Building</td>
<td>$90.4</td>
<td>$69.5</td>
<td>120,746</td>
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</table>

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

Designer: ZGF
Builder: Skanska
### Status
- Construction 82% complete

### Next Actions
- Anticipated completion late fall 2024/early 2025

### Construction Budget

<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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<tr>
<td>Innovation Campus – Academic Building</td>
<td>$302.1</td>
<td>$226.3</td>
<td>299,733</td>
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</table>

### Design and Builder
- Designer: Smith Group
- Builder: Whiting-Turner

### LEGEND
- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
- PD= Preliminary Design
- WD= Working Drawings
## LIFE, HEALTH, SAFETY, ACCESSIBILITY, & CODE COMPLIANCE

**Design-Bid-Build – State Authorized**

### Status
- Multi-phase execution
- Priority 1 Derring Exterior Elevators construction 99% complete
- Priority 2 Green Link construction underway (20% complete)
- Priority 3 Green Link under design

### Next Actions
- Complete Priority 1 construction and begin project close-out
- Continue Priority 2 construction
- Finalize Priority 3 design and develop IFB

### Table: Project Summary

<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</th>
<th>CY 2024</th>
<th>CY 2025</th>
</tr>
</thead>
</table>

**Legend:**
- **Design**
- **Construction**
- **Warranty**
- **SD+ Schematic Design**
- **PD+ Preliminary Design**
- **WD+ Working Drawings**

**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 (15% complete)

Next Actions
► Complete 3 barns in sequence

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($M)</th>
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<th>NEW CONSTR. (GSF)</th>
<th>RENOVATION (GSF)</th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
<th>FY26</th>
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</thead>
<tbody>
<tr>
<td>Livestock &amp; Poultry Research Facilities Phase I – Various Locations</td>
<td>$25.3</td>
<td>$18.2</td>
<td>129,100</td>
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LEGEND
- Design
- Construction
- Warranty
- Construction Phase TBD
- SD= Schematic Design
- PD= Preliminary Design
- WD= Working Drawings
MITCHELL HALL
CM at Risk – State Authorized

Status
► GMP-1 (demolition & early site package) underway
► GMP-2 (building construction) in development

Next Actions
► Demolish Randolph Hall
► Finalize GMP-2 and issue permits for construction (Fall 2024)

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($M)</th>
<th>CONSTRUCTION BUDGET ($M)</th>
<th>NEW CONST. (GSF)</th>
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<th>CY 2023</th>
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<td>Mitchell Hall</td>
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<td>$229.3</td>
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Q3= Jan-Mar     Q4= Apr-Jun     Q1= Jul-Sep     Q2= Oct-Dec     Q3= Jan-Mar     Q4= Apr-Jun     Q1= Jul-Sep     Q2= Oct-Dec

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

Designer: Perkins & Will  Builder: Skanska
## TRANSIT CENTER
Design-Bid-Build – Town of Blacksburg (ToB)

### Status
- Construction 92% complete

### Next Actions
- Anticipated completion in summer 2024
- Blacksburg Transit initiate bus loop operations in June 2024

### Table

<table>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET (SM)</th>
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<tbody>
<tr>
<td>Transit Center</td>
<td>N/A</td>
<td>N/A</td>
<td>13,606</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>
</table>

### Legend
- Design
- Construction
- Warranty
- Construction Phase TBD
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Designer: Wendel (ToB Contract)
Builder: WM Schlosser (ToB Contract)
PROJECTS UNDER WARRANTY
PROJECTS UNDER WARRANTY

Livestock & Poultry Research Facilities – Phase I (Various Locations)

Corps Leadership & Military Science Building

New Upper Quad Residence Hall

Slusher Hall Repairs
CORPS LEADERSHIP & MILITARY SCIENCE BUILDING
CM at Risk – BOV Authorized
COMPLETE

Status
► Project complete

Next Actions
► Close out project

| PROJECT TITLE | TOTAL PROJECT BUDGET ($M) | CONSTRUCTION BUDGET ($M) Construction Contract Value | NEW CONST. (GSF) | RENOVATION (GSF) | CY 2023 FY23 | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Oct-Dec | Q1 Jul-Sep | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Oct-Dec | Q1 Jul-Sep | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Oct-Dec |
|---------------|---------------------------|----------------------------------------------------|-----------------|-----------------|---------------|-------------|------------|-----------|-----------|-------------|------------|-----------|-------------|------------|-------------|------------|-----------|
| Corps Leadership & Military Science Building | $52.0 | $37.9 | 65,428 | 8,449 | | | | | | | | | | | | |

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

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                  | TOTAL PROJECT BUDGET ($M) | CONSTRUCTION BUDGET ($M) | NEW CONST. (GSF) | RENOVATION (GSF) | CY 2023 FY23 | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Jul-Sep | Q1 Oct-Dec | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Jul-Sep | Q1 Oct-Dec | CY 2024 FY24 | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Jul-Sep | Q1 Oct-Dec | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Jul-Sep | Q1 Oct-Dec | CY 2025 FY25 | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Jul-Sep | Q1 Oct-Dec | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Jul-Sep | Q1 Oct-Dec | CY 2026 FY26 | Q3 Jan-Mar | Q4 Apr-Jun | Q2 Jul-Sep | Q1 Oct-Dec |
|--------------------------------|---------------------------|---------------------------|------------------|------------------|---------------|-------------|------------|------------|------------|------------|-------------|------------|-------------|------------|-------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|------------|-------------|------------|-------------|------------|------------|-------------|------------|-------------|------------|------------|-------------|------------|-------------|------------|------------|-------------|------------|-------------|------------|------------|
| New Upper Quad Residence Hall | $42.0                     | $32.0                     | 56,650           |                  |               |             |            |            |            |            |             |            |             |            |             |             |            |             |            |            |             |            |             |            |            |             |            |             |            |            |             |            |             |            |            |             |            |

LEGEND
- Design
- Construction
- Warranty
- Construction Phase TBD
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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

---

**Designer:** Gresham Smith  
**Builder:** Kesler

---

**PROJECT TITLE** | **TOTAL PROJECT BUDGET ($M)** | **CONSTRUCTION BUDGET ($M)** | **NEW CONST. (GSF)** | **RENOVATION (GSF)** | **CY 2023** | **CY 2024** | **CY 2025** | **FY23** | **FY24** | **FY25** | **FY26** |
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<tbody>
<tr>
<td>Slusher Hall Repairs</td>
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<td>38,000</td>
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</tbody>
</table>

**Legend:**  
- SD= Schematic Design  
- PD= Preliminary Design  
- WD= Working Drawings
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>
<thead>
<tr>
<th>PROJECT TITLE</th>
<th>TOTAL PROJECT BUDGET ($M)</th>
<th>CONSTRUCTION BUDGET ($M)</th>
<th>NEW CONST. (GSF)</th>
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<tbody>
<tr>
<td>Livestock &amp; Poultry Research Facilities Phase I – Various Locations</td>
<td>$25.3</td>
<td>$18.2</td>
<td>129,100</td>
<td></td>
<td>Jan-Mar</td>
<td>Apr-Jun</td>
<td>Jul-Sep</td>
<td>Oct-Dec</td>
<td>Jan-Mar</td>
<td>Apr-Jun</td>
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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.
Design Preview for
New Business Building

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, June 11, 2024

The Pamplin College of Business is nationally recognized for its business programs and is integral to Virginia Tech’s delivery of instruction and research programming in support of the commonwealth. The New Business Building project will provide a consolidated location for the college, allowing the college to amplify program impact, as well as couple with the Data and Decision Sciences building to complete the academic facilities of the Global Business and Analytics Complex (GBAC). Once complete, GBAC will be a transformative academic and physical addition to the North Academic District. The prominent site, on the corner of Prices Fork Road and West Campus Drive, presents the university a valuable opportunity to create a new campus gateway at this previously undeveloped primary intersection.

The project is in preliminary design with working drawings anticipated to start in early 2025 and substantial completion anticipated for fall 2027. The project planning authorization, approved at the April 4, 2022 Board of Visitors meeting, includes $8 million of private gifts. The total project cost will be supported by a combination of private gifts, non-general fund cash, and university non-general fund debt.
Design Preview for
New Business Building
Capital Project Information Summary

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, June 11, 2024

Title of Project:
New Business Building

Location:
The project site located at the prominent intersection of Prices Fork and West Campus Drive, affording the opportunity to create a new campus gateway at the North Academic District. The project will connect with the existing Data and Decision Sciences (D&DS) multi-story commons wing. The project site includes significant elevation and landscape transitions between Prices Fork at the north and throughout the North Academic District, which will be addressed through the addition of pathways which are to be fully accessible and embrace a Universal Design approach.

Current Project Status and Schedule:
The project is currently in preliminary design and is anticipated to proceed to working drawings in early 2025. Construction is anticipated to begin fall of 2025 with substantial completion in the fall of 2027.

Project Description:
The New Business Building will provide a consolidated location for the Pamplin College of Business (PCOB), allowing PCOB to amplify program impact, as well as couple with the recently completed D&DS to complete the academic facilities of the Global Business and Analytics Complex (GBAC). Envisioned as an approximately 92,300 gross square foot four-story structure, with mechanical penthouse, the facility connects directly with the D&DS multi-story commons wing. The new facility will provide expanded, modern educational space sufficient to meet demand for the university’s business programs at the Blacksburg campus.

Brief Program Description:
The program represents the consolidation of all Pamplin departments from existing Pamplin Hall, Wallace Hall, and other campus locations. Administrative, academic, collaborative, as well as support spaces will be provided for PCOB. The new building will include the Dean’s suite and boardroom, shared conferencing, student organization and collaborative spaces, a small café, and building support spaces. Showcase spaces include the Marriott HOKIE Hospitality Lab, APEX Center for Entrepreneurs, Center for Business Intelligence and Analytics, and Center for International Programs.
The already completed D&DS building will provide shared classrooms, which were developed to support business curriculum instructional needs, as well as direct access to the Deloitte/Taillon Analytics and Trading Lab and team rooms, the Ernst & Young Visualization classroom hub and team rooms, and the Behavioral Lab. Together both facilities will leverage opportunities across disciplines including data analytics and integrated security.

**Contextual Issues and Design Intent:**
Situated prominently on the corner of Prices Fork Road and West Campus Drive, this primary campus intersection grants the institution a rare opportunity; the New Business Building coupled with the D&DS building provides the framework for an architectural gateway at this campus node. The envisioned building will be clad in a combination of Hokie Stone, precast concrete panels and trim, and a combination of glazed curtain wall and punched window openings. The GBAC academic complex is envisioned to be a notable contribution to the campus’ Collegiate Gothic architecture in alignment with the Campus Design Principles, which D&DS already contributes greatly toward.

**Funding:**
The project planning authorization, approved at the April 4, 2022 Board of Visitors meeting, includes $8 million of private gifts. The total project cost will be supported by a combination of private gifts, non-general fund cash, and university non-general fund debt. Once the preliminary design phase is complete and a firm scope, cost, funding, and schedule for the entire project are established a subsequent request for full funding will be submitted to the Board of Visitors.

**Architect/Engineer:**
Moseley Architects, Architect of Record, with RAMSA, Design Architect

**Construction Manager at Risk:**
Kjellstrom & Lee
DESIGN PREVIEW FOR
NEW BUSINESS BUILDING

LIZA MORRIS
ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

June 11, 2024
SCOPE  APPROX. 92,300 GSF

DELIVERY METHOD  CONSTRUCTION MANAGER AT RISK

TOTAL PROJECT BUDGET  TO BE DETERMINED FOLLOWING PRELIMINARY DESIGN

DESIGN PHASE  PRELIMINARY DESIGN

ESTIMATED CONSTRUCTION START  FALL 2025

ESTIMATED CONSTRUCTION COMPLETION  FALL 2027
**PROJECT MILESTONES**

**PRE-AUTHORIZATION**
- 6-YEAR CAPITAL PLAN
- PLANNING APPROVAL

**PLANNING-AUTHORIZATION**
- DESIGN PREVIEW
- DESIGN REVIEW

**CONSTRUCTION-AUTHORIZATION**
- WORKING DRAWINGS
- CONSTRUCTION
- OCCUPANCY

**DESIGN PREVIEW** for NEW BUSINESS BUILDING
EXISTING CONDITIONS

VIEW NORTH

VIEW SOUTH

/DESIGN PREVIEW for NEW BUSINESS BUILDING
EXTERIOR RENDERING
VIEW - NORTHEAST

Heraldry opportunities
Hokie Stone
Precast concrete detailing
Glazing system
Accessible pathway

Data & Decision Sciences

DESIGN PREVIEW for NEW BUSINESS BUILDING
EXTERIOR RENDERING
VIEW - SOUTHWEST

Metal panel system

Data & Decision Sciences (D&DS)

Connection to D&DS

Building entrance

Accessible regrading of campus gateway

Connection to D&DS

Prices Fork Road

/DESIGN PREVIEW for NEW BUSINESS BUILDING

Attachment F
RECOMMENDATION

That the Design Preview graphics be approved, and authorization be provided to continue with the project design consistent with the drawings shown.
Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the commonwealth. This project is the third of three high-priority accessibility initiatives identified by the university in the Life, Health, Safety, Accessibility, and Code Compliance category of the 2018-2024 Capital Outlay Plan. The project is scoped to create a new accessible route on an existing primary pedestrian corridor to support equal access to key Education and General funded facilities in the North Academic District.

The project is in the working drawings phase with construction anticipated to begin late fall of 2024 and substantial completion anticipated summer of 2025. The university received total project funding of $10.4 million in Life, Health, Safety, Accessibility, and Code Compliance funds from the state for three priority projects, $1.86 million of which will be applied to this third priority project.
Title of Project:
Life, Health, Safety, Accessibility, and Code Compliance – Priority 3

Location:
The project is sited within the North Academic District, within an existing primary pedestrian corridor which connects the Drillfield to the eastern half of the district.

Current Project Status and Schedule:
The project will be delivered via design-bid-build procurement and is currently in the working drawings phase. Construction is anticipated to begin late fall of 2024 with substantial completion anticipated summer of 2025.

Project Description:
The project will revise a currently non-accessible steep-sloped pedestrian route between Drillfield Drive and the eastern portion of the North Academic District. The route will create a Green Link segment which connects Drillfield Drive to the east-west pedestrian corridors at Patton Hall, Holden Hall and McBryde Hall. This segment also provides connectivity to other recently created accessible routes, connecting to Turner Way and the Upper Quad further expanding the campus mobility network and providing additional benefits.

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

Brief Program Description:
Ensuring the safety, health, and accessibility of the campus environment is critical to the long-term success of the university and its service to the commonwealth. This project is the third of three high-priority accessibility initiatives identified by the university in the Life, Health, Safety, Accessibility, and Code Compliance category of the 2018-2024 Capital Outlay Plan. The project is scoped to create a new accessible route on an existing primary pedestrian corridor which will support equal access to key Education and General funded facilities in the North Academic District. The project is a crucial component of resolving the lack of accessible routes in this area of campus.
Contextual Issues and Design Intent:
The North Academic District straddles vertical topography created by two branches of Troubles Creek. The land use pattern to address the steep slopes resulted in the creation of multiple levels in the campus environment. Many of these levels are currently only directly accessible via non-accessible pathways. The site of this pathway is also impacted by many existing underground utilities.

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

Funding:
This project was first proposed under the 2018-2024 Capital Outlay Plan and received a portion of the initial request, $3.1 million in Life, Health, Safety, Accessibility, and Code Compliance funding by the 2020 General Assembly. In the 2022-2028 Capital Outlay Plan, $7.3 million of supplemental General Fund support was requested and received. The total appropriation authorized by the General Assembly for this project is $10.4 million, $1.86 million of which will be applied to this third priority project.

Architect/Engineer:
Sasaki

Contractor:
TBD
DESIGN PREVIEW AND REVIEW FOR LIFE, HEALTH, SAFETY, ACCESSIBILITY, AND CODE COMPLIANCE – PRIORITY 3

LIZA MORRIS
ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

June 11, 2024
**PROJECT INFORMATION**

<table>
<thead>
<tr>
<th>SCOPE</th>
<th>LHSACC - PRIORITY 3 (GREENLINK)</th>
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<tbody>
<tr>
<td>DELIVERY METHOD</td>
<td>DESIGN BID BUILD</td>
</tr>
<tr>
<td>PROJECT BUDGET</td>
<td>$1.86M* FOR PRIORITY 3</td>
</tr>
<tr>
<td>DESIGN PHASE</td>
<td>WORKING DRAWINGS</td>
</tr>
<tr>
<td>ESTIMATED CONSTRUCTION START</td>
<td>LATE FALL 2024</td>
</tr>
<tr>
<td>ESTIMATED CONSTRUCTION COMPLETION</td>
<td>SUMMER 2025</td>
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</table>

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

PRE-AUTHORIZATION

- BUDGET REQUEST
- PROJECT APPROVAL

POST-AUTHORIZATION

- DESIGN PREVIEW/REVIEW
- SCHEMATIC DESIGN
- PRELIMINARY DESIGN
- WORKING DRAWINGS
- CONSTRUCTION
- OCCUPANCY

// DESIGN PREVIEW AND REVIEW FOR LHSACC - PRIORITY 3

Attachment F
EXISTING CONDITIONS

VIEW A
EXISTING CONDITIONS

VIEW B
VIEW B

Attachment F
That the Design Preview and Review graphics be approved, and authorization be provided to continue with the project design consistent with the drawings shown.
Discussion of Physical Accessibility Process and Progress

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, June 11, 2024

The Committee will participate in a discussion of physical accessibility process and progress with Bob Broyden, Interim Vice President for Campus Planning, Infrastructure, and Facilities, and Kelly Oaks, Associate Vice President for Equity and Accessibility.

The discussion will focus on physical accessibility in context, process, prioritization mechanisms, integration within facilities planning, and resulting progress.
DISCUSSION OF PHYSICAL ACCESSIBILITY PROCESS AND PROGRESS

PREPARED FOR THE BUILDINGS AND GROUNDS COMMITTEE

Bob Broyden, Interim Vice President for Campus Planning, Infrastructure, and Facilities
Kelly Oaks, Associate Vice President for Equity and Accessibility

June 11, 2024
GOAL
Foster more inclusive and accessible physical environments on campus.

OBJECTIVE
Identify needs, opportunities, and solutions that advance physical accessibility.

STRATEGY
Utilize a 'community of practice' approach to assess, prioritize, and implement accessible strategies to remove barriers from campus.
EXTENSIVE AREA TO COVER

BUILDINGS
- 851 Structures
- 12.4 million GSF

SIDEWALKS & PATHWAYS
- 54 Miles

ELEVATION GAIN
- 131 Vertical Feet
- ~10 Story Building
COMPLEX LEGACY OF CONSTRUCTION STANDARDS

Building Square Footage

YEAR
1949 Initial Standards
1973 USBC
1991 ADA

1973 USBC
1949 Initial Standards
1991 ADA

GSF
14,000,000
12,000,000
10,000,000
8,000,000
6,000,000
4,000,000
2,000,000
0

1973 USBC
1949 Initial Standards
1991 ADA

Building Square Footage
Since 2022: 20 Projects & $5.3M Executed

- **Building Entries and Interiors**
  - Squires Student Center entry
  - Whittemore Hall entry
  - Environmental Health and Safety Building entry
  - Multiple Door Auto-operator Installations
  - Torgersen Hall Classroom Seating
  - Litton-Reaves Hall Classroom Seating

- **Exterior Routes and Spaces**
  - Dietrick Hall and Quillen Family Spirit Plaza (Infinite Loop Section)
  - Drillfield to the Upper Quad (New Upper Quad Hall North)
  - Goodwin Hall to Stanger Street and Exterior Seating
  - I-Lot (parking) to Vet Med
  - Squires Student Center/Newman Library to Alumni Mall
  - President’s Quad Pathways Phase I
  - Brooks Center Pathway
  - 100+ Trip Hazard Repairs
  - 50+ Handrail Repairs
  - 20+ Curb Cuts on Campus Pathways
  - Multiple Wayfinding Signage Installations

- **Restroom Upgrades**
  - McBryde Hall
  - Johnston Student Center
  - Squires Student Center

Drillfield to Upper Quad Access Improvements as part of Upper Quad Hall North Capital Project
UNDERWAY: 13 PROJECTS & $22.7M FUNDED

- Derring Hall Exterior Elevators
- Johnston Student Center Exterior Elevators
- Infinite Loop Sections
  - Classroom Building to Kelly Hall
  - Newman Library to Dietrick Hall
- Green Links Sections
  - Transit Center to Drillfield (West)
  - Transit Center to Drillfield (East)
- Visitor Center Pathway
- Hahn Hall to Davidson Hall Pathway
- Hutcheson Hall to Campbell Hall Pathway
- Stanger Street – Old Turner Street Crosswalk
- McBryde Restrooms (Continued)
- Hutcheson Hall Restrooms
- Trip Hazard/Handrail/Curb Cut/Signage Projects
CLOSING THOUGHTS AND DISCUSSION
Discussion of Physical Accessibility Process and Progress
Resources and References

BUILDINGS AND GROUNDS COMMITTEE

Tuesday, June 11, 2024

Resources

- Virginia Tech Accessibility Portal
  https://www.vt.edu/accessibility.html

- How to report a physical barrier on campus

- Follow the map: Interactive campus map
  https://news.vt.edu/notices/adm-evergreens/follow-the-map.html

References

- Capital construction efforts to improve Blacksburg campus accessibility to begin in February
  https://news.vt.edu/articles/2022/12/accessibility-capital-project.html

- Virginia Tech's Blacksburg campus master plan awarded merit for accessible design efforts
  https://news.vt.edu/articles/2021/09/master-plan-award.html

- New interactive campus map features accessible navigation, improved user experience
  https://news.vt.edu/articles/2022/08/new-interactive-campus-map.html

- Advancing physical, digital accessibility at Virginia Tech rooted in a collaborative approach
  https://news.vt.edu/articles/2021/12/oea-cawgreport.html
UNIVERSITY BUILDING OFFICIAL

Board of Visitors Buildings and Grounds Committee

June 2024
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.
UBO Team

Chris Kiel, PE, MCP, CBO
University Building Official

Heather Snidow
Permit Technician / Administrative Coordinator

Marie Castillo
Assistant Permit Technician

John Bush, AIA
Architectural Code Plan Reviewer / Inspector

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

David Brown, CFO
Fire Code Plan Reviewer / Inspector

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

Chris McGrath, PE
Structural Code Plan Reviewer / Inspector
Permits

Permits by Month

Increase over the past two years 26%

2023-24  2020-21  2021-22  2022-23
Inspections

Inspections per Month

Increase over the past two years 46%

Virginia Tech Division of Campus Planning, Infrastructure, and Facilities | University Building Official Presentation
Reviews

Plan Reviews per Month

72% Increase over the past two years

Virginia Tech Division of Campus Planning, Infrastructure, and Facilities | University Building Official Presentation
Questions?
Thank You!

OFFICE OF THE UNIVERSITY BUILDING OFFICIAL

540-231-4678 | vtubo-g@vt.edu
facilities.vt.edu/university-building-official
UTILITIES MASTER PLAN

NAM NGUYEN | Executive Director of Energy and Utilities
June 2024
The Utility Master Plan Development Project

Phase 1: Field Investigations – Completed

Phase 2: Existing Conditions Assessment – Completed
  – Existing Conditions Report Delivered
  – Project recommendations vetted by Utilities

Phase 3: Analysis and Projections – Underway
  – Utility Systems Models
  – Load Analysis and Projections
  – Alignment with CAC Goals and Objectives
  – Service Level Risk

Phase 4: Final Utility Master Plan Document – Underway
Capacity

OPTIMIZING FOR CURRENT REQUIREMENTS AND PLAN FOR FUTURE LOAD

Electric Loading by Circuit and Planning Horizon

Sum of Diversified Cooling Loads by Planning District and Time Horizon
Condition

Asset Health, Age, Risk Assessment

Utilities by Installation Date

<table>
<thead>
<tr>
<th>Year Range</th>
<th>Sanitary Sewer</th>
<th>Potable Water</th>
<th>Chilled Water</th>
<th>Domestic Hot Water</th>
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Length (Miles)
Priority Projects to Manage Risk

Condition vs Criticality

- **LOW**
- **MEDIUM**
- **HIGH**

Virginia Tech Division of Campus Planning, Infrastructure, and Facilities | Utilities Master Plan

Attachment F
Alignment with Ongoing Improvement Projects

RECENTLY COMPLETED AND PLANNED ASSET RENEWALS

**Power Plant**
- Installed Boiler 12
- Turbine refurbishment
- Generator rewinding
- Decommissioning coal boilers and coal yard

**Chilled Water Plant**
- Replace two North Chillers in 2026
- Replace main switchgear

**VTES**
- Replace two 50+ year-old substation transformers in 2027
- Substation upgrades in 2027: Breakers, switchgear, relay
- Migrate loads from Blacksburg/Perry to Lane East/West
- Rooftop solar arrays

**Mechanical Utilities**
- Waste water flow monitoring
- Replace high pressure steam expansion joints
- Replace condensate returns
- Replace water lines
### Ongoing Phases and Schedule

<table>
<thead>
<tr>
<th>Phase 1: Field Investigation</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
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<td>Phase 3: Analysis and Future State Projections</td>
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</table>

- ▲ Denotes collaborative stakeholder workshops
- ▲ Denotes briefing to BOV Buildings and Grounds Committee
Continuum of Energy Evolution

Leverage energy innovation when matured while maximizing return on invested assets

Asset Value

2024

Timeline

2050

Depreciate Full Value of Current Assets

Implementation of New Energy Technologies
Next Steps

1. Evaluate final service level risks
   - Condition of Systems
   - Capacity to meet Load Projections
   - Existing level of services
   - 6 year Capital Plan
   - 2047 build-out
   - CAC Goals & Objectives

2. Develop projects to address service level risks
   - Utility project development workshops
   - Stakeholder review workshops
   - Prioritize final project lists

3. Finalize Utility Master Plan Document for Implementation

4. Initiate Utility Master Programing