

## 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)

**University personnel and guests:** President Tim Sands, Noah Alderman, Lynsay Belshe, Cassidy Blackmore, Leanne Bokinskie, Bob Broyden, Brock Burroughs, Chris Carwile, Cyril Clarke, Lance Collins, Joe Cooley, Carrie Cox, Jeff Earley, Alisha Ebert, Katrina Estep, Ron Fricker, Mark Gess, Brian Grove, Frances Keene, Brian Kleiner, Christophe Larroque, Liza Morris, Ed Nelson, Kelly Oaks, Rob Ogle, Leslie Orellana, Kim O'Rourke, Jeff Orzolek, Charlie Phlegar, William Poland, Nick Quint, Julia Ross, Amy Sebring, Todd Shelton, Brennan Shepard, Jill Sible, John Tarter, Don Taylor, Dwyn Taylor, Jon Clark Teglas, Teresa Thompson, Anthony Watson, Chris Yianilos, and Victor Zimbardi

1. **Tour of North Academic District Construction Sites:** The Committee toured campus construction sites in the North Academic District.
  - 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

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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**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.

- \* **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

\* Requires Full Board Approval

# Discusses Enterprise Risk Management Topic(s)

+ Discusses Strategic Investment Priorities Topic(s)

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. Organizationally,

\* Requires Full Board Approval

# Discusses Enterprise Risk Management Topic(s)

+ Discusses Strategic Investment Priorities Topic(s)

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.*

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
1. Tour of North Academic District Construction Sites	Bob Broyden
a. Undergraduate Science Laboratory Building	Dwyn Taylor
b. Life, Health, Safety, Accessibility, and Code Compliance	
c. Transit Center	
d. Hitt Hall	

**Tuesday, June 11, 2024**

*Open session meeting begins at 10:00 a.m. in the Classroom Building, Room 230.*

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
2. Welcome and Introductions	Greta Harris
3. Consent Agenda	Greta Harris
a. Minutes from the April 2024 Committee Meeting	Bob Broyden
* 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	
4. Design Preview for the New Business Building	Liza Morris
5. Design Preview and Review for Life, Health, Safety, Accessibility, and Code Compliance – Priority 3	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

\* Requires Full Board Approval

# Discusses Enterprise Risk Management Topic(s)

+ Discusses Strategic Investment Priorities Topic(s)

## Open Session Agenda

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**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 multivenue 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



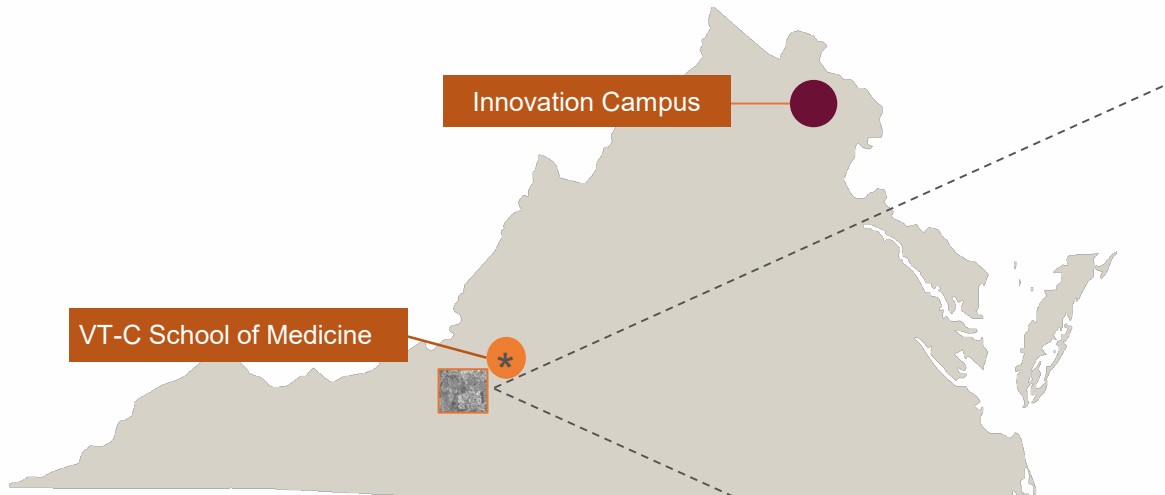
# CAPITAL PROJECT PORTFOLIO

- 16 authorized projects -- active and complete (w/in 1-year warranty phase)
- Total value of ~\$1.1B
- Generates ~1.3M gross square feet (GSF) of new construction
- Renovates nearly 255K GSF of existing space








# CAPITAL PROJECT PORTFOLIO



## LEGEND

-  In Design
-  Under Construction
-  Warranty/Complete
- \* Design Only



*Blacksburg Campus*

# CAPITAL CONSTRUCTION EXECUTIVE SUMMARY (PROGRESSIVE)

Date Prepared: 23 MAY 2024



Project Title	Total Project Budget (\$M)	Construction Budget (\$M) (Construction Contract Value)	New Const. (GSF)	Renovation (GSF)	CY 2023		CY 2024				CY 2025					
					FY23		FY24		FY25		FY26					
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
Corps Leadership & Military Science Building	52.0	37.9	65,428	8,449												
New Upper Quad Residence Hall	42.0	32.0	56,650													
Slusher Hall Repairs	7.5	5.6		38,000												
Building Envelope Improvements (Note 2)	47.2	41.9	N/A													
HITT Hall	85.0	65.5	101,000													
Student Wellness Improvements	70.0	56.3		204,000												
Football Locker Room Renovation	5.9	4.1		4,200												
Transit Center (Note 1)	N/A	N/A	13,606													
Undergraduate Science Laboratory Building	90.4	69.5	120,746													
Innovation Campus – Academic Building	302.1	226.3	299,733													
Life, Health, Safety, Accessibility, & Code Compliance (Note 3)	10.4	3.9	N/A													
Livestock & Poultry Research Facilities – Phase I – Various Locations	25.3	18.2	129,100													
Mitchell Hall (Note 4&5)	292.3	229.3	285,500													
New Business Building (Planning – Design Only)	8.0	TBD	92,295													
Student Life Village – Phase I (Planning – Design Only)	19.5	TBD	TBD													
Virginia Tech-Carlilion School of Medicine Expansion (Planning – Design Only)	9.0	TBD	TBD													
Improve Center Woods Complex (Planning – Design Only)	846K	TBD	TBD													
<b>Totals</b>	<b>\$1,067.4</b>		<b>1,164,058</b>	<b>254,649</b>												

LEGEND	Design	Construction	Warranty	Construction Phase TBD	SD= Schematic Design	PD= Preliminary Design	WD= Working Drawings
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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 GMPs results in design/construction overlap (fast track)

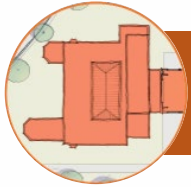
NOTE 5 Estimated construction completion of Mitchell Hall is December 2027



# IN DESIGN



# PROJECTS IN DESIGN



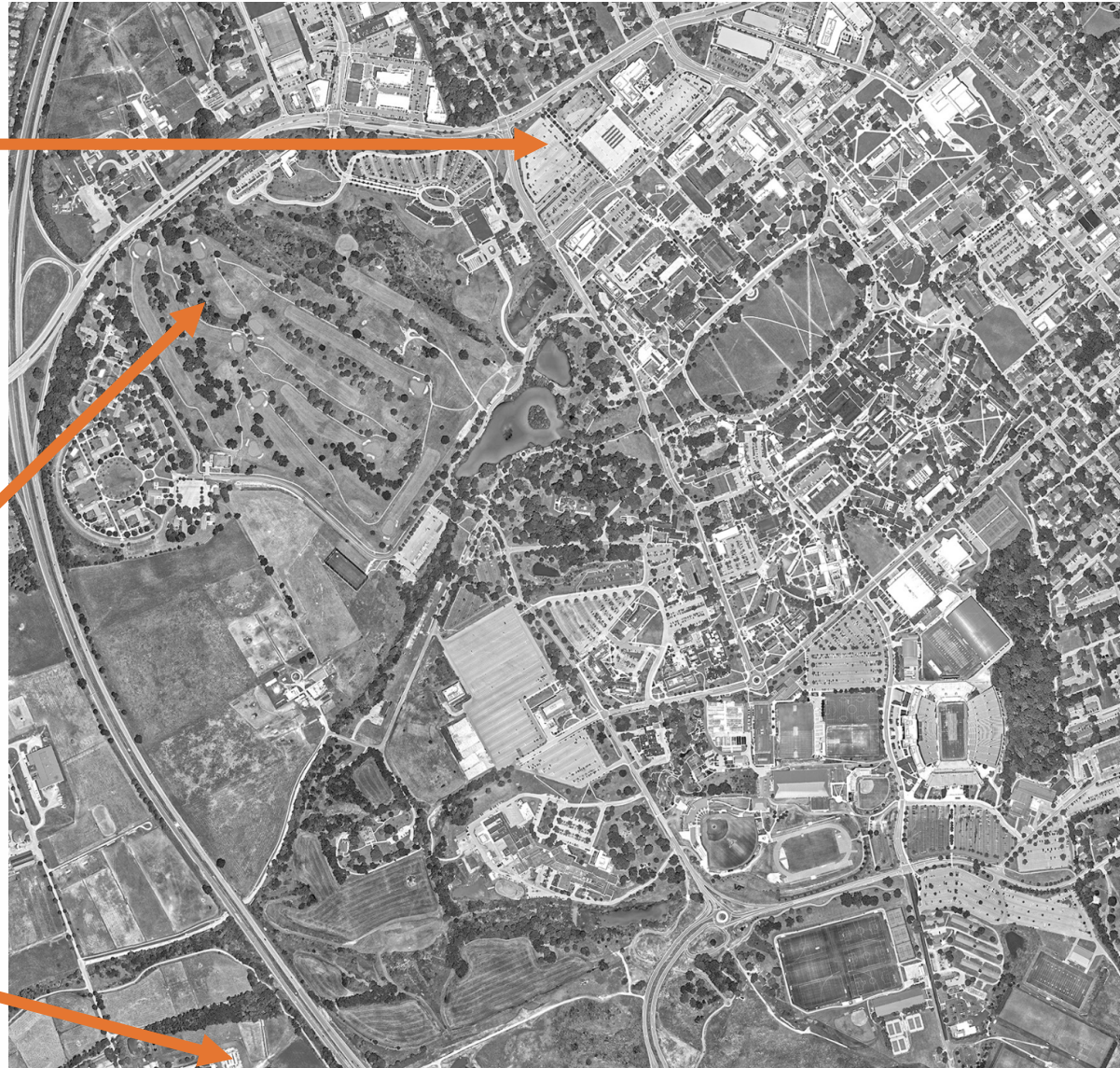
New Business Building\*



Student Life Village – Phase I\*



Improve Center Woods Complex\*

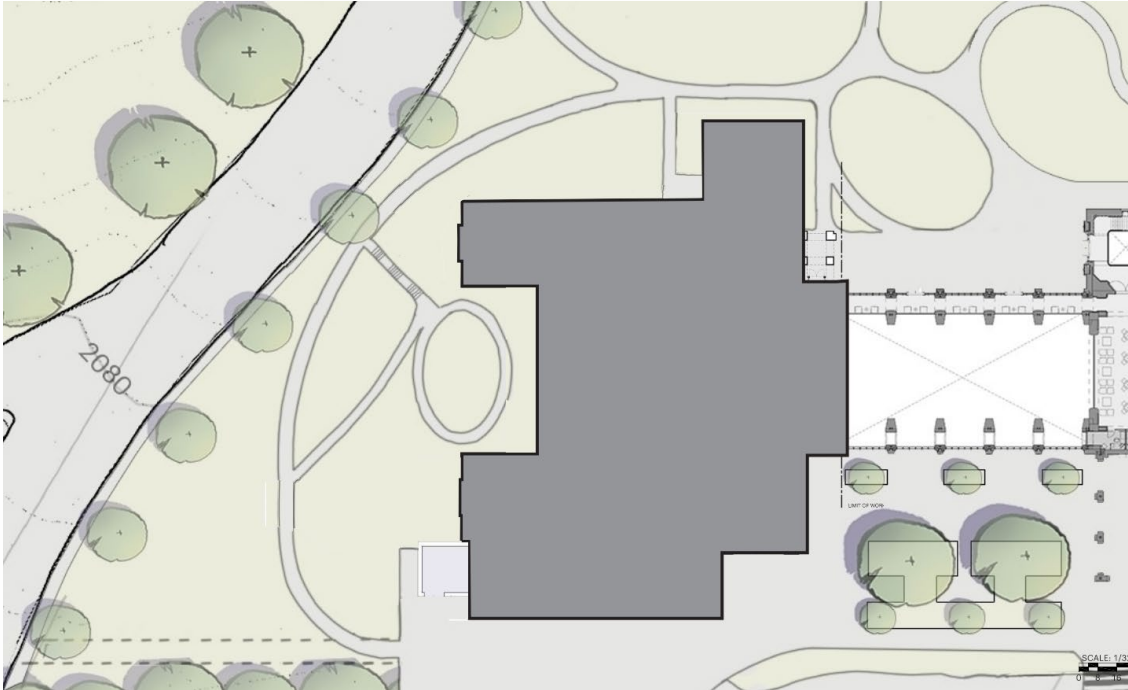


Virginia Tech-Carilion  
School of Medicine  
Expansion\*  
(Roanoke, VA)



# PLANNING: NEW BUSINESS BUILDING

CM at Risk – BOV Authorized



## Status

- ▶ Preliminary Design underway
- ▶ CMaR pre-construction services contract underway

## Next Actions

- ▶ Targeting BOV Construction Authorization in fall 2024

PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
New Business Building ( <i>Planning – Design Only</i> )	\$8.0	TBD	92,295													

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

PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25				FY26			
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
Student Life Village – Phase I ( <i>Planning – Design Only</i> )	\$19.5	TBD	TBD													

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

Designer: Little/Boudreaux

Builder: TBD

# 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

PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
Virginia Tech-Carilion School of Medicine Expansion <i>(Planning – Design Only)</i>	\$9.0	TBD	TBD													

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

Designer: TBD

Builder: TBD

# PLANNING: IMPROVE CENTER WOODS COMPLEX

Design-Bid-Build – BOV Authorized



## Status

- ▶ Schematic Design underway

## Next Actions

- ▶ Continue design efforts

PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025				
					FY23		FY24		FY24		FY25		FY25		FY26		
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	
Improve Center Woods Complex <i>(Planning – Design Only)</i>	\$846K	TBD	TBD														

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

Designer: TBD

Builder: TBD

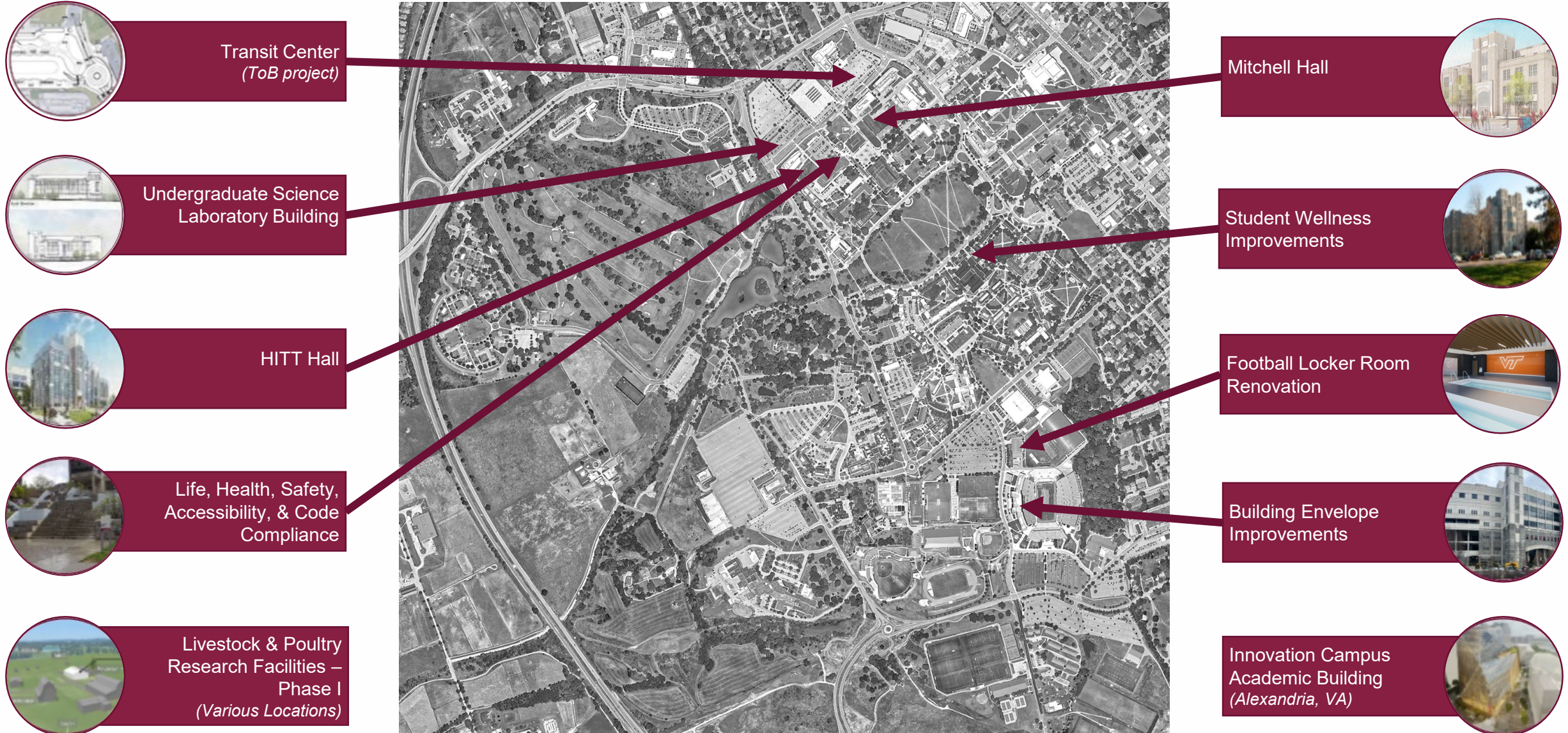




# UNDER CONSTRUCTION



# ACTIVE CONSTRUCTION PROJECTS





# 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	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
Building Envelope Improvements	\$47.2	\$41.9	N/A													

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



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
HITT Hall	\$85.0	\$65.5	101,000													

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



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
Student Wellness Improvements	\$70.0	\$56.3		204,000												

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

Builder: Whiting-Turner

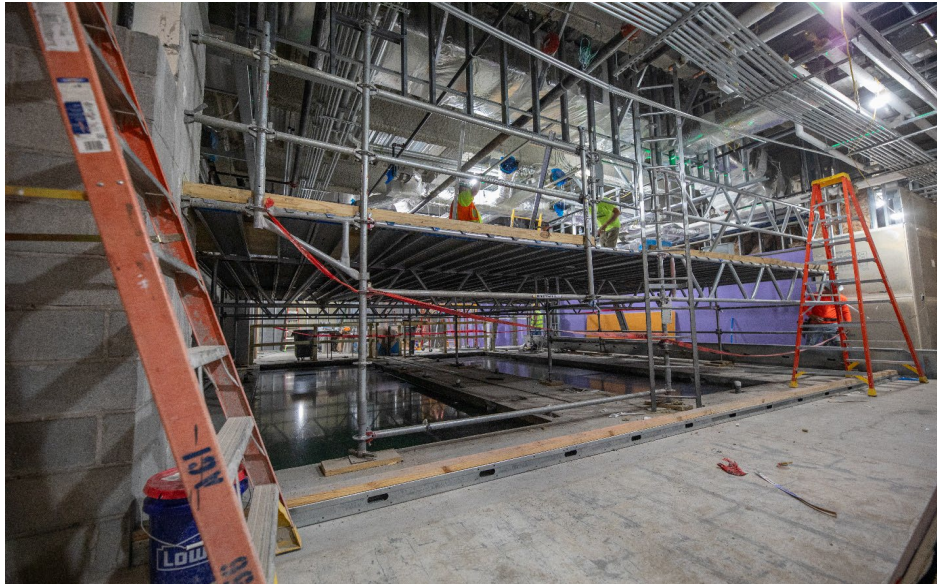


# FOOTBALL LOCKER ROOM RENOVATION

## Design-Bid-Build – BOV Authorized

### Status

- ▶ Construction 90% complete



### Next Actions

- ▶ Complete construction and begin project close-out



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
Football Locker Room Renovation	\$5.9	\$4.1		4,200												

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



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
Undergraduate Science Laboratory Building	\$90.4	\$69.5	120,746													

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

Builder: Skanska



# INNOVATION CAMPUS – ACADEMIC BUILDING

## CM at Risk – State Authorized

### Status

- ▶ Construction 82% complete



### Next Actions

- ▶ Anticipated completion late fall 2024/early 2025



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
Innovation Campus – Academic Building	\$302.1	\$226.3	299,733													

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

Designer: Smith Group

Builder: Whiting-Turner

# LIFE, HEALTH, SAFETY, ACCESSIBILITY, & CODE COMPLIANCE

Design-Bid-Build – State Authorized



## Status

- ▶ 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

PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
Life, Health, Safety, Accessibility, & Code Compliance	\$10.4	\$3.9	N/A													

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

Builder: Various



# LIVESTOCK & POULTRY RESEARCH FACILITIES – PHASE I (BID PACKAGE 5)

Design-Bid-Build – State Authorized

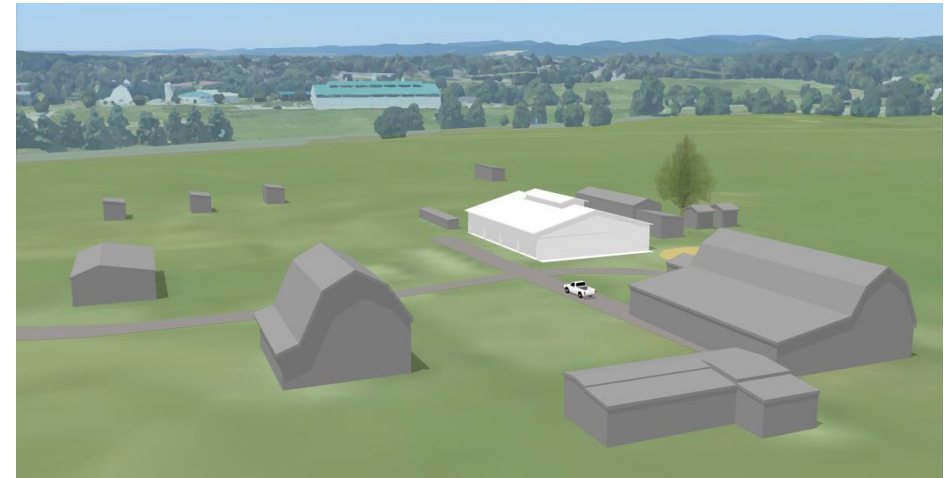
## Status

- ▶ Bid package #5: 1st of 3 barns under construction (15% complete)



## Next Actions

- ▶ Complete 3 barns in sequence



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023		CY 2024				CY 2025				
					FY23		FY24		FY25		FY26				
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep
Livestock & Poultry Research Facilities Phase I – Various Locations	\$25.3	\$18.2	129,100												

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

Builder: Various

# 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)



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025				
					FY23		FY24		FY25		FY26						
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	
Mitchell Hall	\$292.3	\$229.3	285,500														

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



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
Transit Center	N/A	N/A	13,606													

LEGEND	Design	Construction	Warranty	Construction Phase TBD	SD= Schematic Design	PD= Preliminary Design	WD= Working Drawings
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Designer: Wendel (ToB Contract)

Builder: WM Schlosser (ToB Contract)

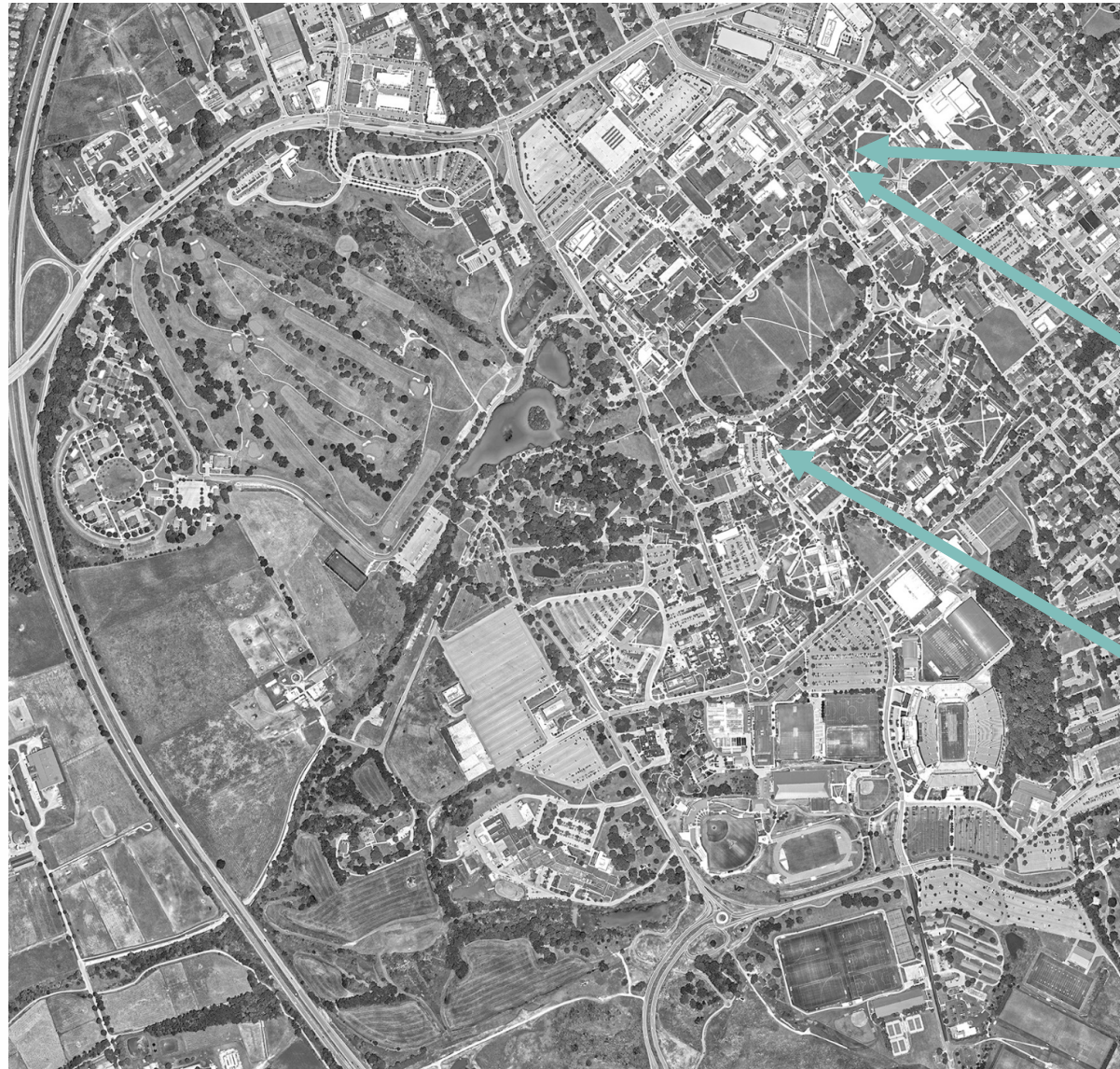




# PROJECTS UNDER WARRANTY



# 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) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
Corps Leadership & Military Science Building	\$52.0	\$37.9	65,428	8,449												

LEGEND	Design	Construction	Warranty	Construction Phase TBD	SD= Schematic Design	PD= Preliminary Design	WD= Working Drawings
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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	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY24		FY25		FY25		FY26	
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
New Upper Quad Residence Hall	\$42.0	\$32.0	56,650													

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

Designer: Clark-Nexen

Builder: Vannoy

# SLUSHER HALL REPAIRS

Emergency – BOV Authorized  
**COMPLETE**

## Status

- ▶ Project complete



## Next Actions

- ▶ Close out project



PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec	Q3 Jan-Mar	Q4 Apr-Jun	Q1 Jul-Sep	Q2 Oct-Dec
Slusher Hall Repairs	\$7.5	\$5.6		38,000												

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

PROJECT TITLE	TOTAL PROJECT BUDGET (\$M)	CONSTRUCTION BUDGET (\$M) <small>(Construction Contract Value)</small>	NEW CONST. (GSF)	RENOVATION (GSF)	CY 2023				CY 2024				CY 2025			
					FY23		FY24		FY25		FY26					
					Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>	Q3 <small>Jan-Mar</small>	Q4 <small>Apr-Jun</small>	Q1 <small>Jul-Sep</small>	Q2 <small>Oct-Dec</small>
Livestock & Poultry Research Facilities Phase I – Various Locations	\$25.3	\$18.2	129,100													

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**

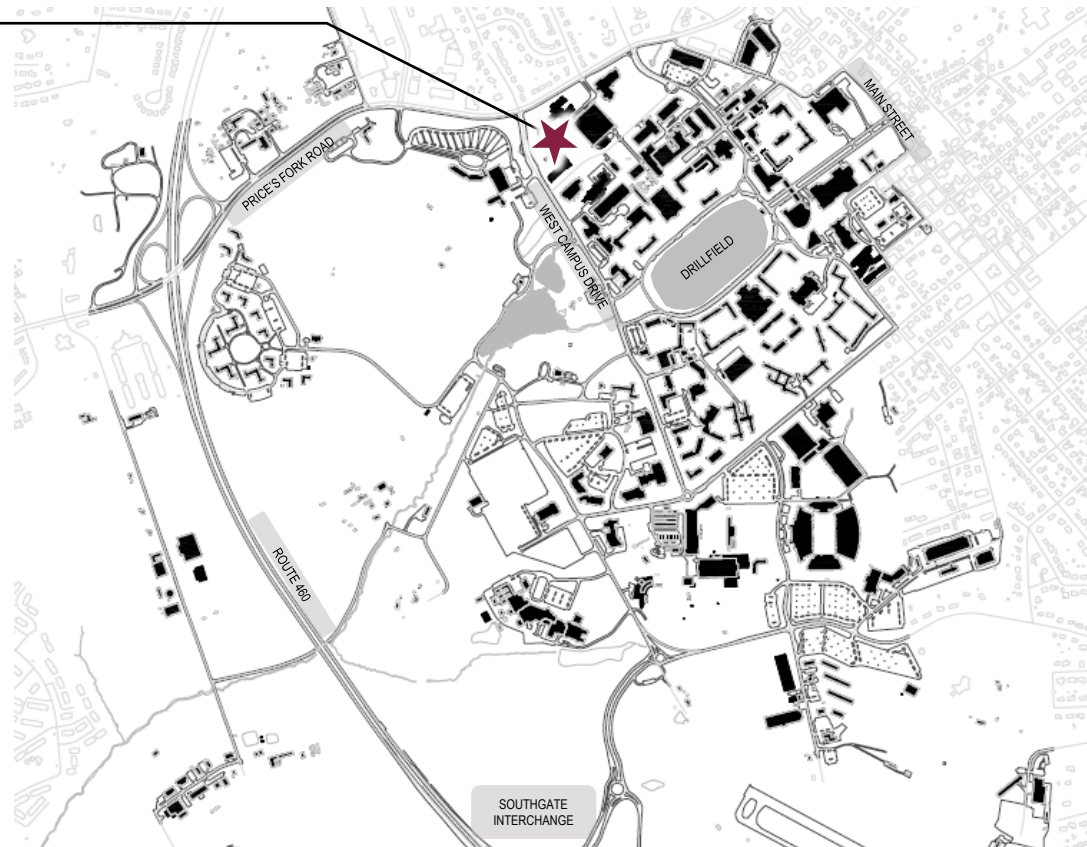
LIZA MORRIS

ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

June 11, 2024

# PROJECT LOCATION

SITE



Virginia Tech  
Blacksburg, VA

SOUTHGATE  
INTERCHANGE



# PROJECT INFORMATION

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Attachment F

SCOPE      **APPROX. 92,300 GSF**

DELIVERY METHOD      **CONSTRUCTION MANAGER AT RISK**

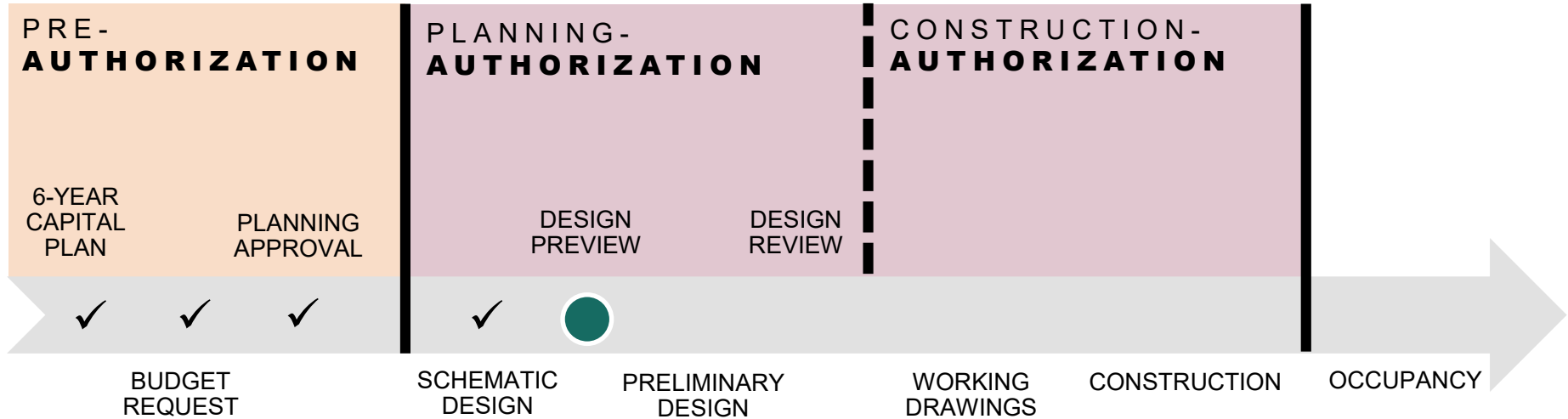
TOTAL PROJECT BUDGET      **TO BE DETERMINED FOLLOWING  
PRELIMINARY DESIGN**

DESIGN PHASE      **PRELIMINARY DESIGN**

ESTIMATED CONSTRUCTION START      **FALL 2025**

ESTIMATED CONSTRUCTION COMPLETION      **FALL 2027**

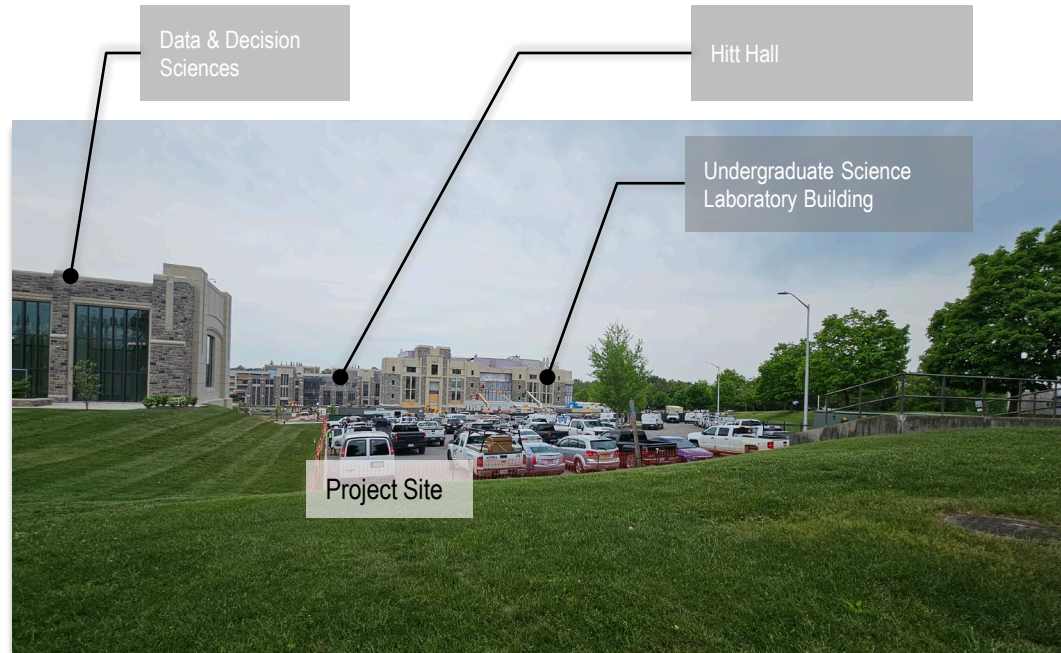
# PROJECT MILESTONES



# EXISTING CONDITIONS



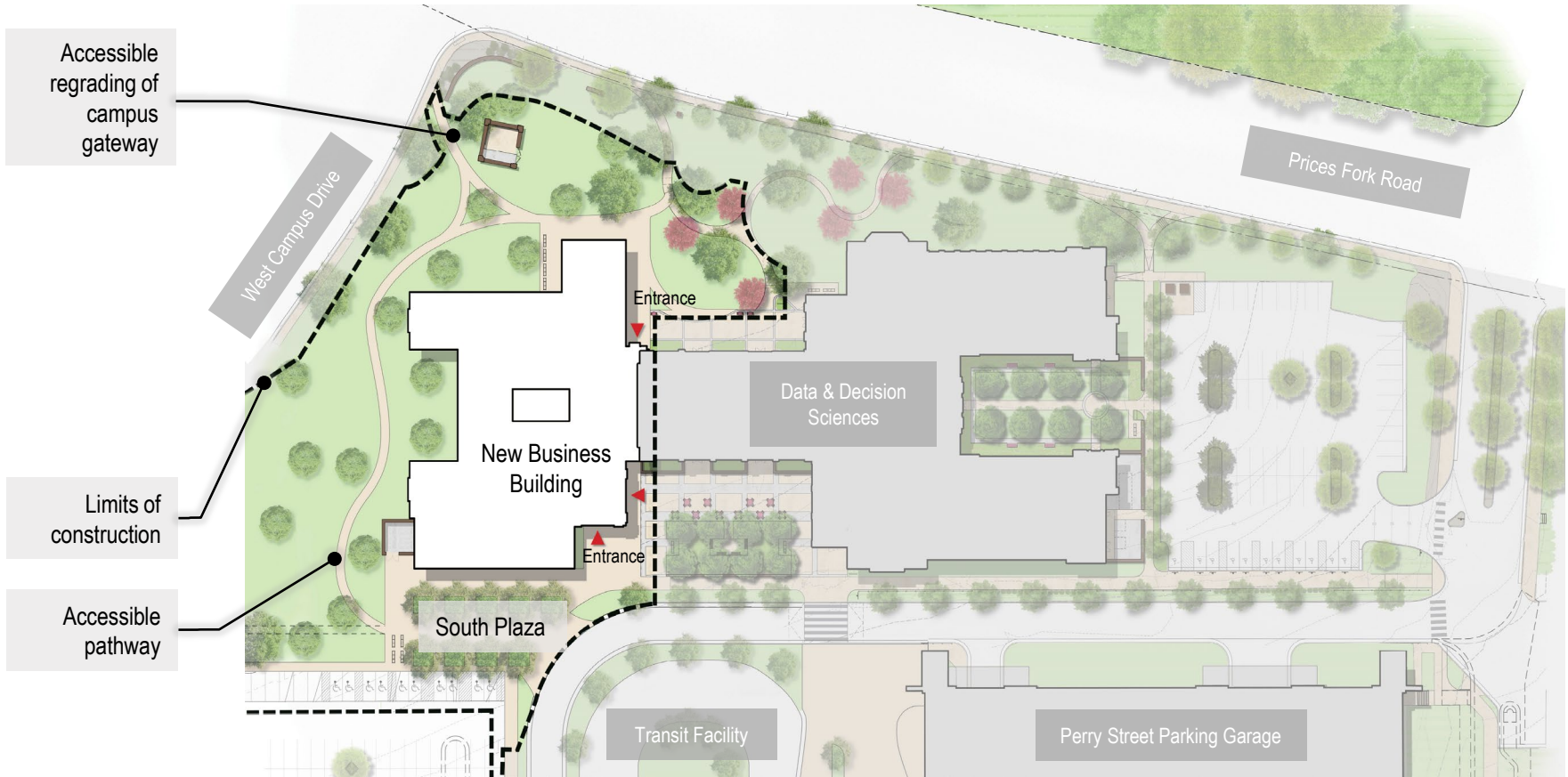
VIEW NORTH



VIEW SOUTH

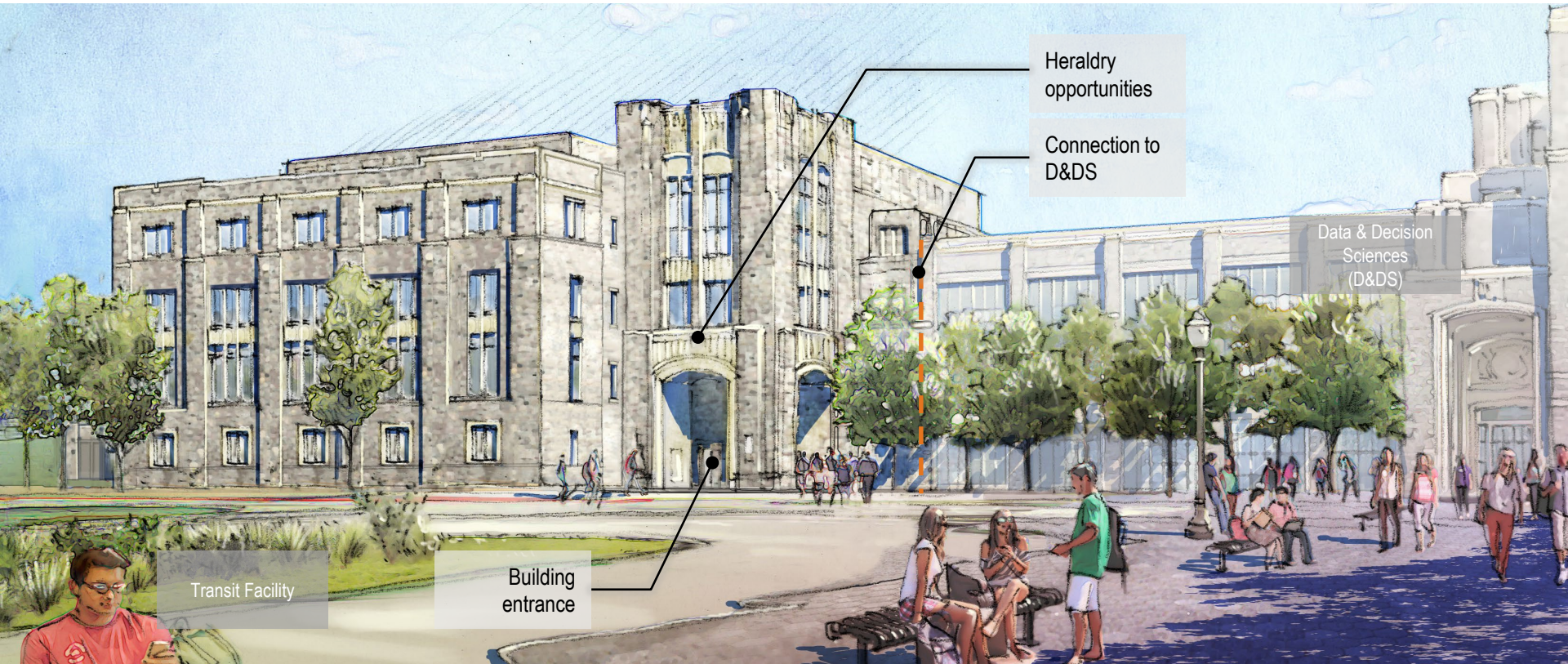


# SITE PLAN



# EXTERIOR RENDERING

## VIEW - NORTHWEST



Heraldry opportunities

Connection to D&DS

Data & Decision Sciences (D&DS)

Transit Facility

Building entrance



# EXTERIOR RENDERING

## VIEW - NORTHEAST



Heraldry opportunities

Hokie Stone

Precast concrete detailing

Glazing system

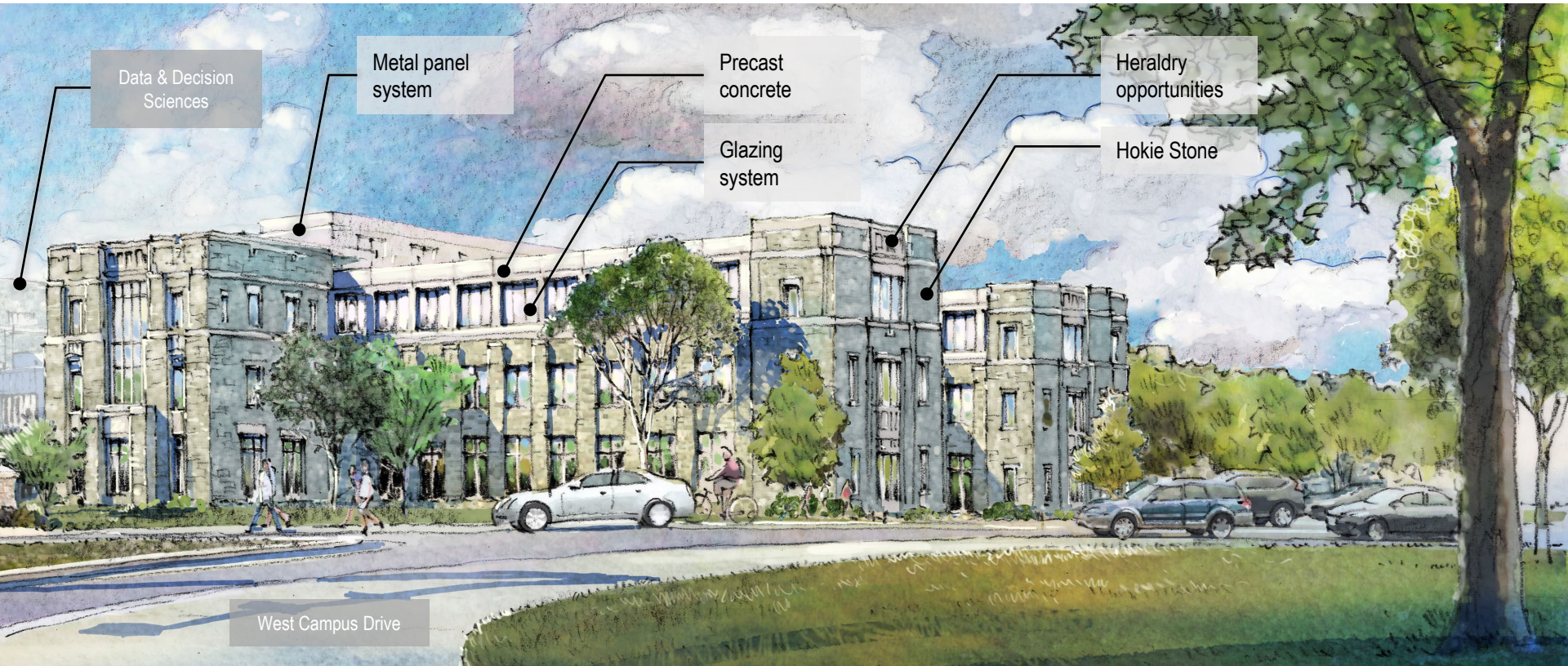
Accessible pathway

Data & Decision Sciences



# EXTERIOR RENDERING

## VIEW - SOUTHEAST



Data & Decision  
Sciences

Metal panel  
system

Precast  
concrete

Glazing  
system

Heraldry  
opportunities

Hokie Stone

West Campus Drive

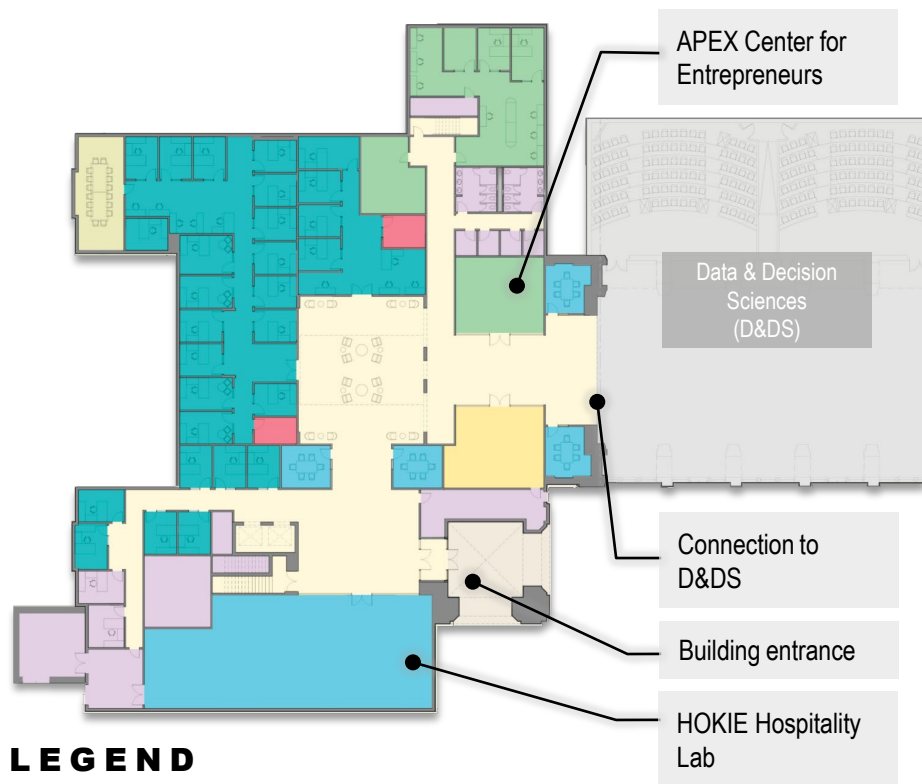


# EXTERIOR RENDERING

## VIEW - SOUTHWEST



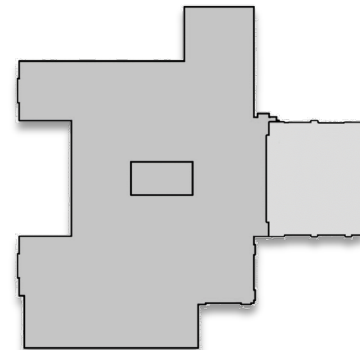
# FLOOR PLANS



## LEGEND

<span style="color: #00AEEF;">■</span> CLASSROOMS	<span style="color: #4CAF50;">■</span> LABS	<span style="color: #2196F3;">■</span> GRADUATE AREA
<span style="color: #FFEB3B;">■</span> CIRCULATION	<span style="color: #8BC34A;">■</span> CONFERENCE	<span style="color: #F44336;">■</span> WORK AREA
<span style="color: #9575CD;">■</span> MEP / BOH	<span style="color: #00BCD4;">■</span> FACULTY OFFICE	<span style="color: #FF9800;">■</span> KITCHEN / BREAK ROOM
		<span style="color: #FFC107;">■</span> AMENITY / CAFE

1





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

**Design Preview and Review for  
Life, Health, Safety, Accessibility, and Code Compliance – Priority 3**

**BUILDINGS AND GROUNDS COMMITTEE**

**Tuesday, June 11, 2024**

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.

**Design Preview and Review for  
Life, Health, Safety, Accessibility, and Code Compliance – Priority 3  
Capital Project Information Summary**

**BUILDINGS AND GROUNDS COMMITTEE**

**June 11, 2024**

**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 Stroubles Creek. The land use pattern to address the steep slopes resulted in the creation of multiple levels in the campus environment. Many of these levels are currently only directly accessible via non-accessible pathways. 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**

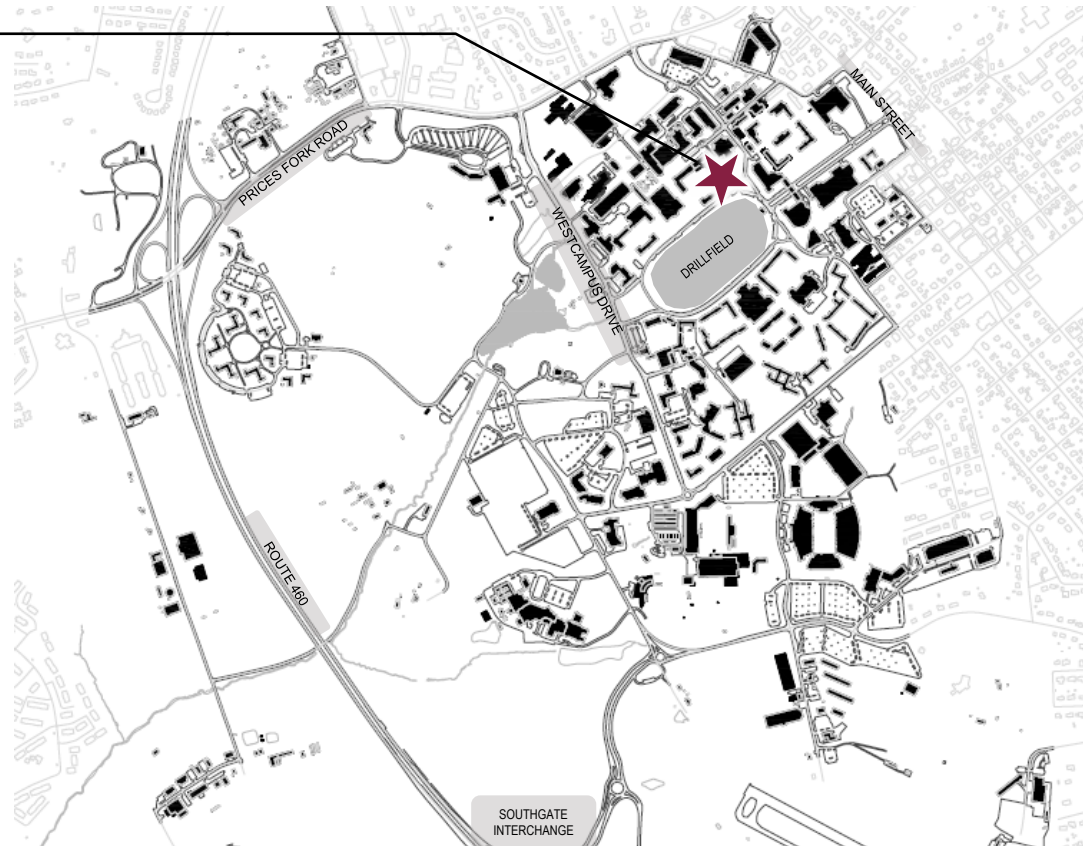
LIZA MORRIS

ASSISTANT VICE PRESIDENT FOR PLANNING AND UNIVERSITY ARCHITECT

June 11, 2024

# PROJECT LOCATION

## SITE



Virginia Tech  
Blacksburg, VA

SOUTHGATE  
INTERCHANGE



# PROJECT INFORMATION

---

Attachment F

SCOPE **LHSACC – PRIORITY 3 (GREENLINK)**

DELIVERY METHOD **DESIGN BID BUILD**

PROJECT BUDGET **\$1.86M\* FOR PRIORITY 3**

DESIGN PHASE **WORKING DRAWINGS**

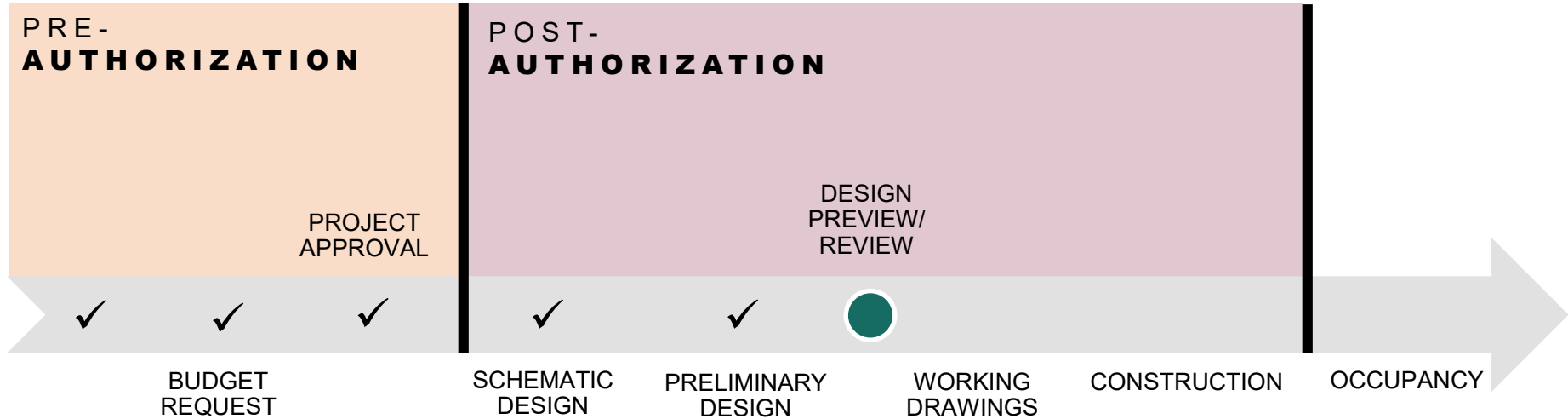
ESTIMATED CONSTRUCTION START **LATE FALL 2024**

ESTIMATED CONSTRUCTION COMPLETION **SUMMER 2025**

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

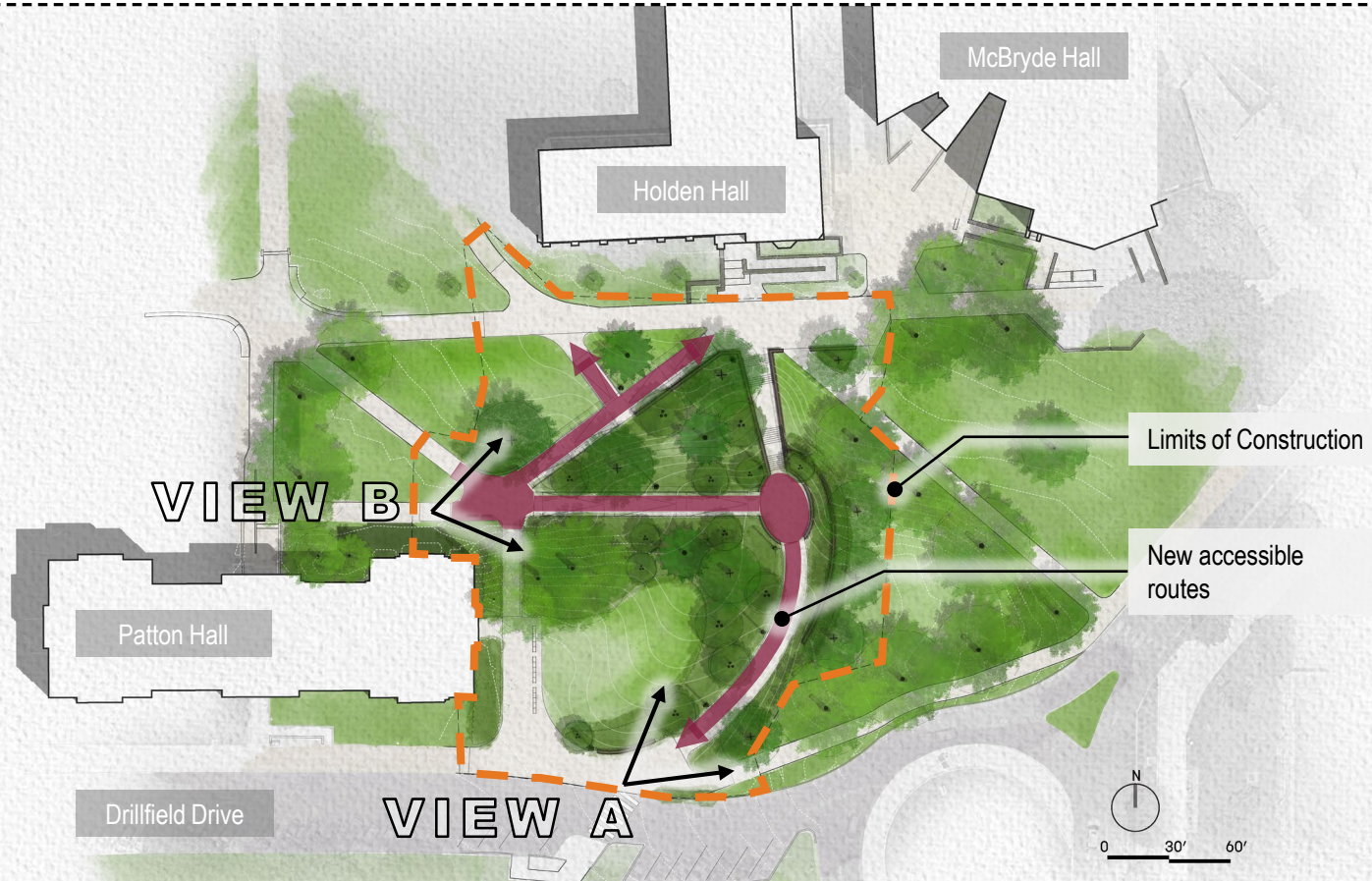
# PROJECT MILESTONES

---



# SITE PLAN - AREA A

Attachment F





# EXISTING CONDITIONS

## VIEW A



Holden  
Hall

McBryde  
Hall

Torgersen  
Hall



# RENDERING

## VIEW A

Holden  
Hall

McBryde  
Hall





# EXISTING CONDITIONS

## VIEW B





# RENDERING

## VIEW B

Attachment F



# RECOMMENDATION

---

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**



# COMMUNITY OF PURPOSE



## **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

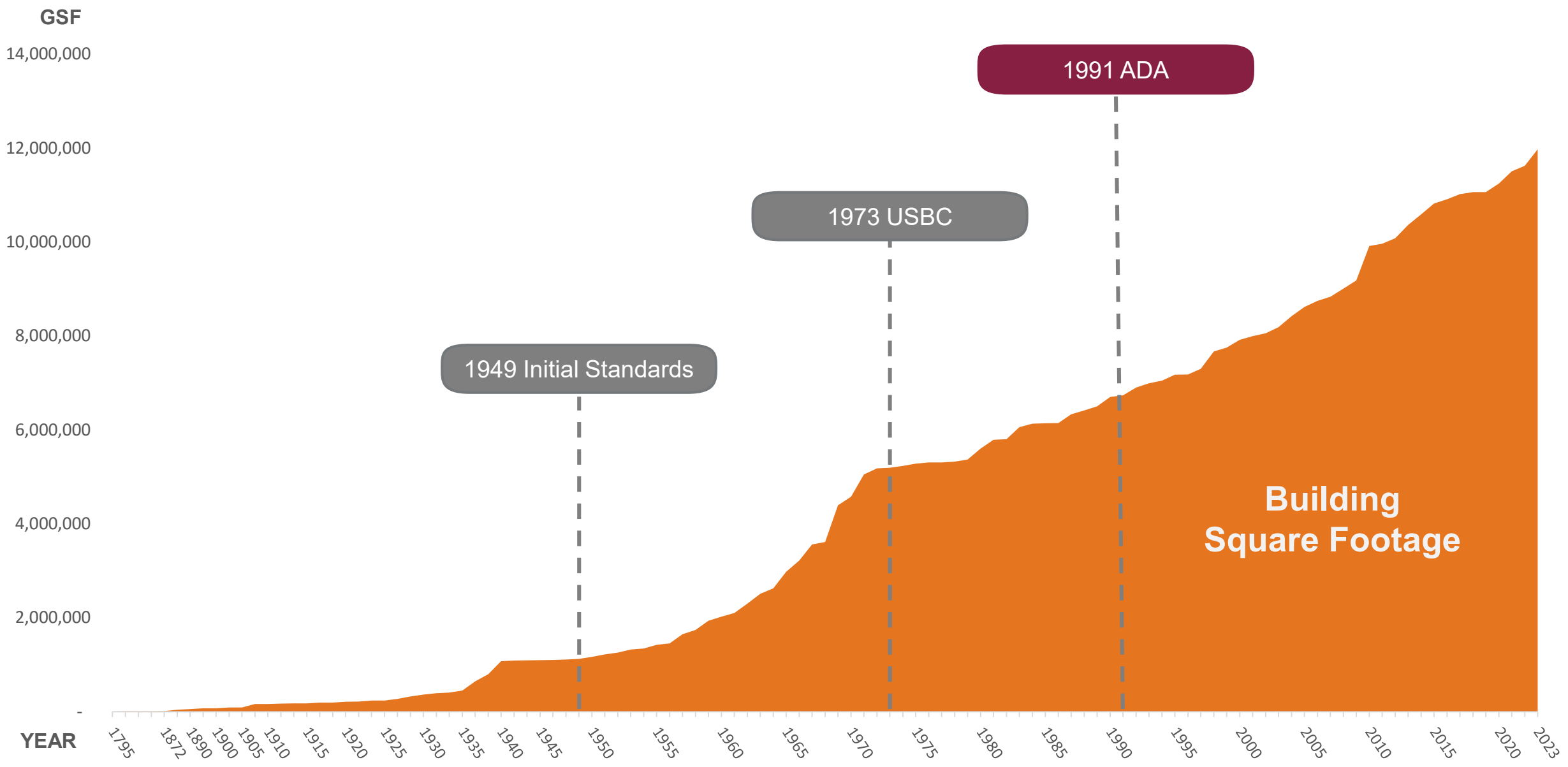
## ELEVATION GAIN

131 Vertical Feet  
---  
~10 Story Building





# COMPLEX LEGACY OF CONSTRUCTION STANDARDS



# SINCE 2022: 20 PROJECTS & \$5.3M EXECUTED

Attachment F

Drillfield to Upper Quad Access Improvements  
as part of Upper Quad Hall North Capital Project



- **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



# UNDERWAY: 13 PROJECTS & \$22.7M FUNDED

Attachment F

A rendering of the universally designed pathway near the Johnston Student Center



- 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  
<https://news.vt.edu/notices/adm-evergreens/report-physical-barrier.html>
- 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>

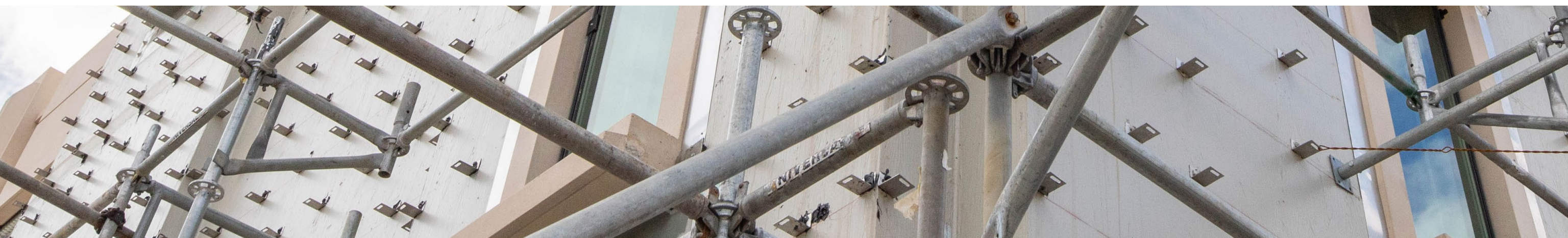




# UNIVERSITY BUILDING OFFICIAL

Board of Visitors Buildings and Grounds Committee

June 2024





# Office of the University Building Official

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





# 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

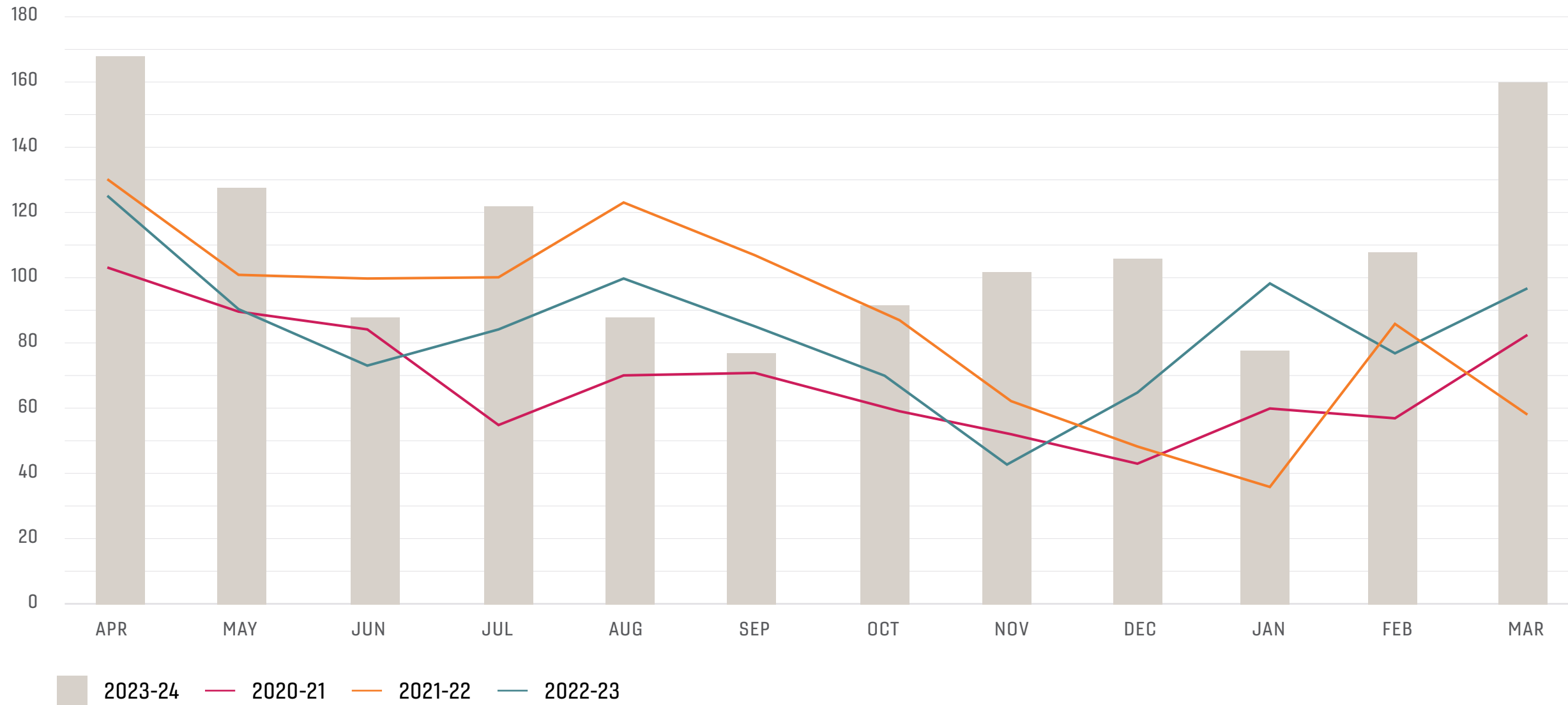


# Permits



## Permits by Month

**26%** Increase over the past two years



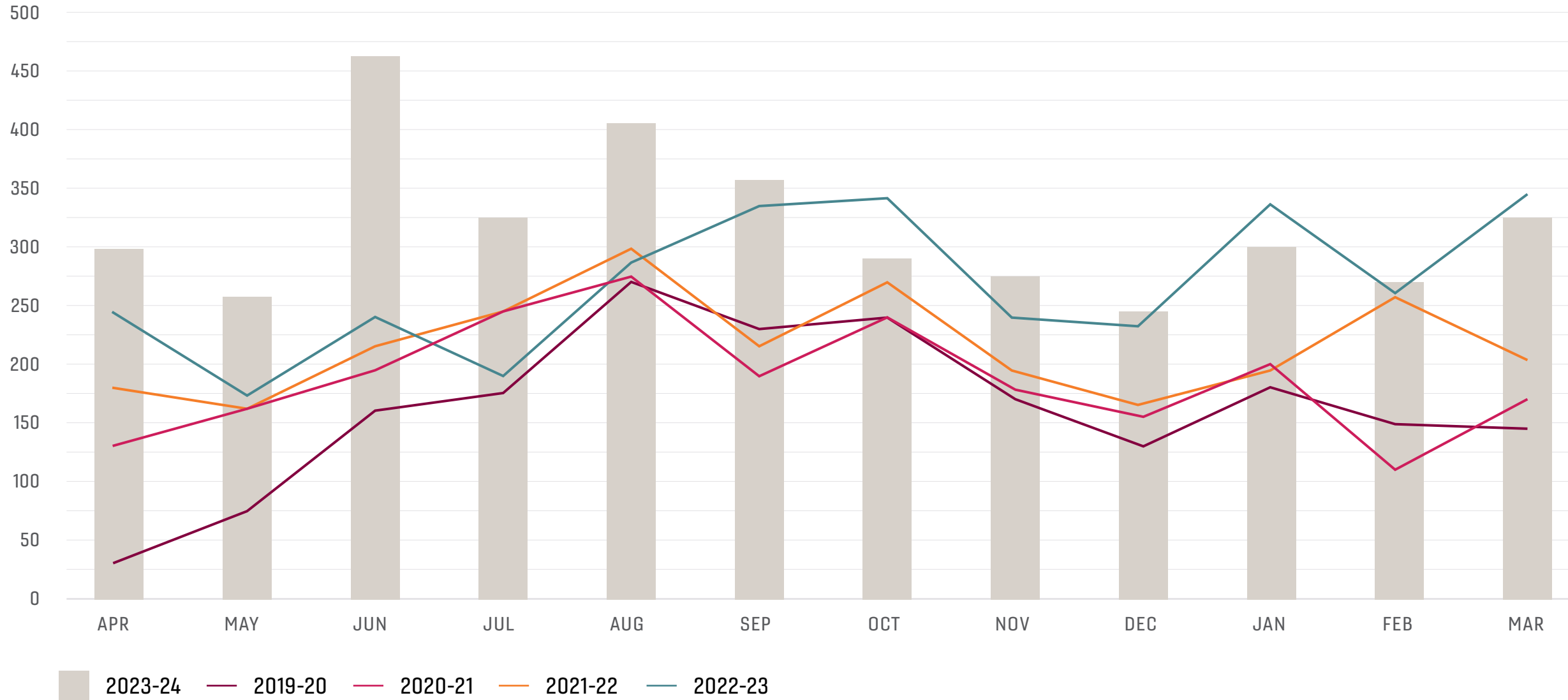


# Inspections



## Inspections per Month

46% Increase over the past two years

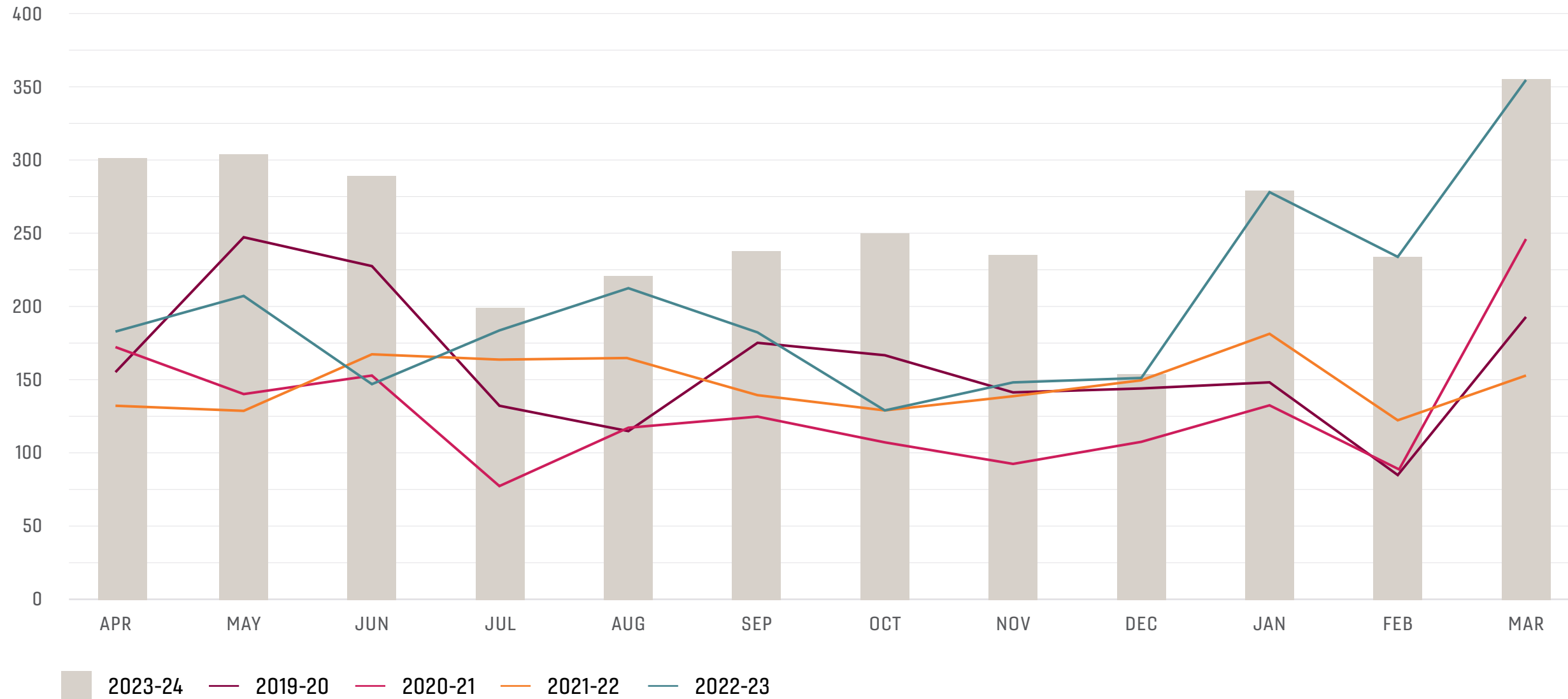


# Reviews



Plan Reviews per Month

**72%** Increase over the past two years











**Thank You!**

OFFICE OF THE UNIVERSITY BUILDING OFFICIAL

540-231-4678 | vtubo-g@vt.edu

[facilities.vt.edu/university-building-official](https://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

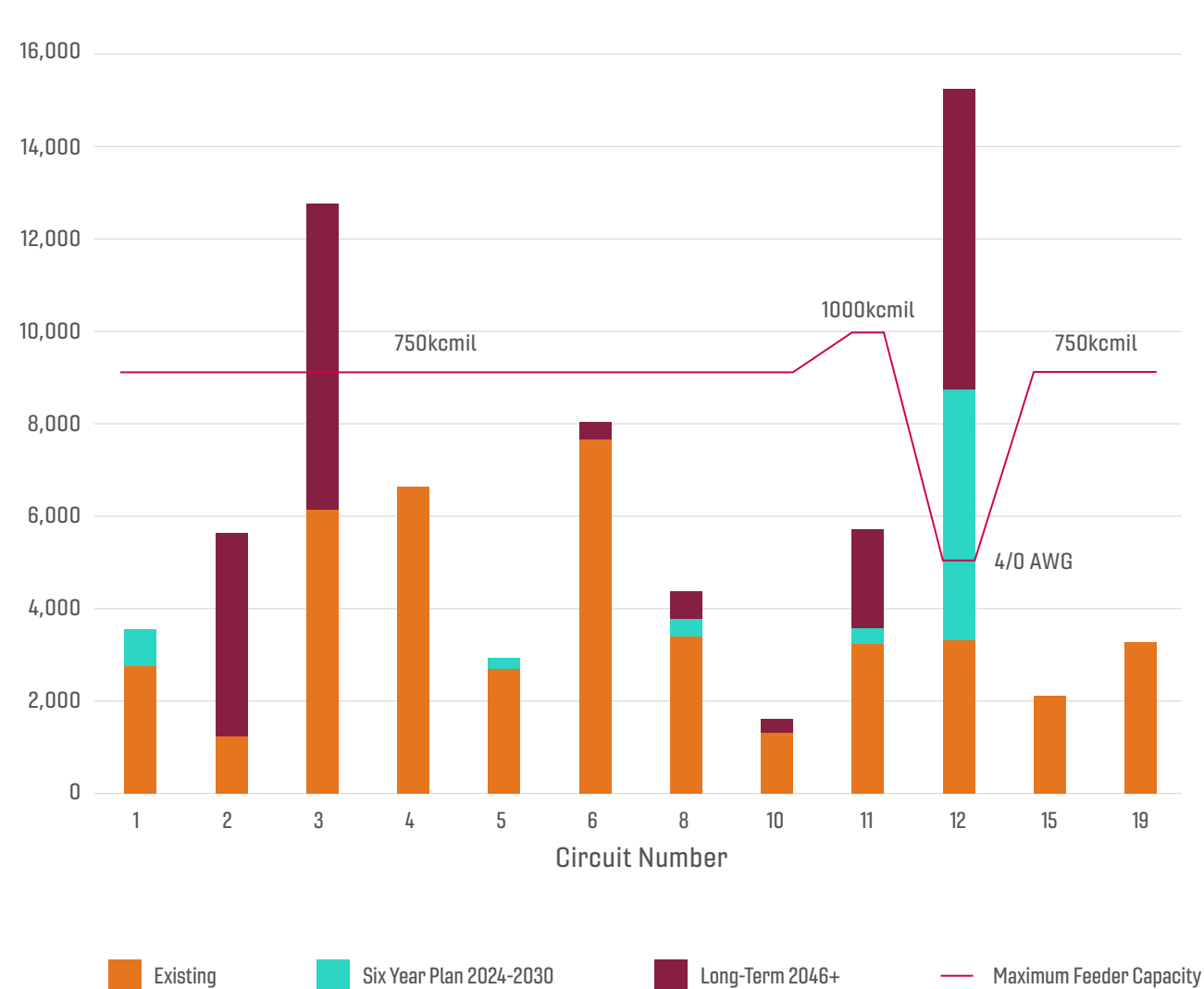
**Phase 4: Final Utility Master Plan Document – Underway**



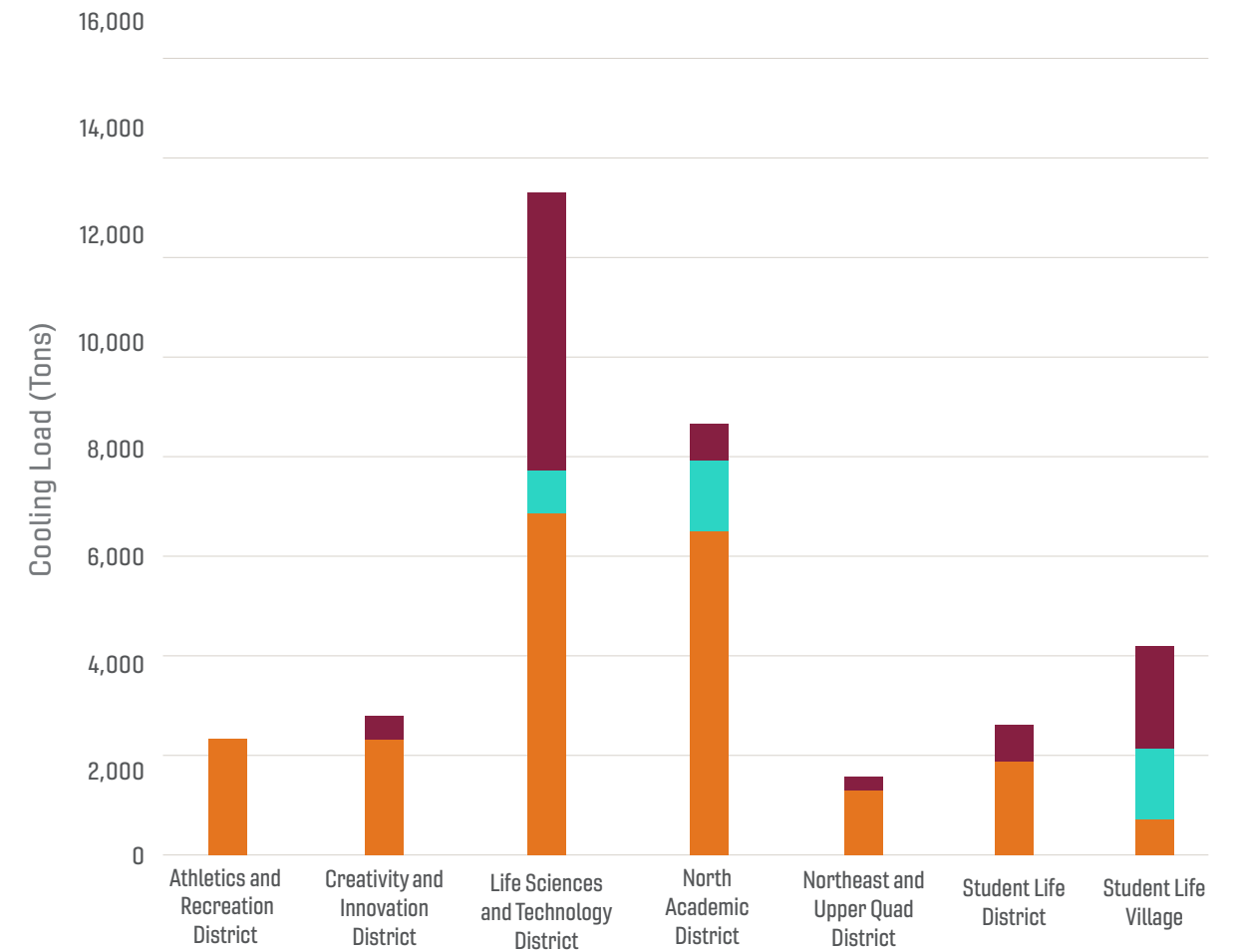
# Capacity

## 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

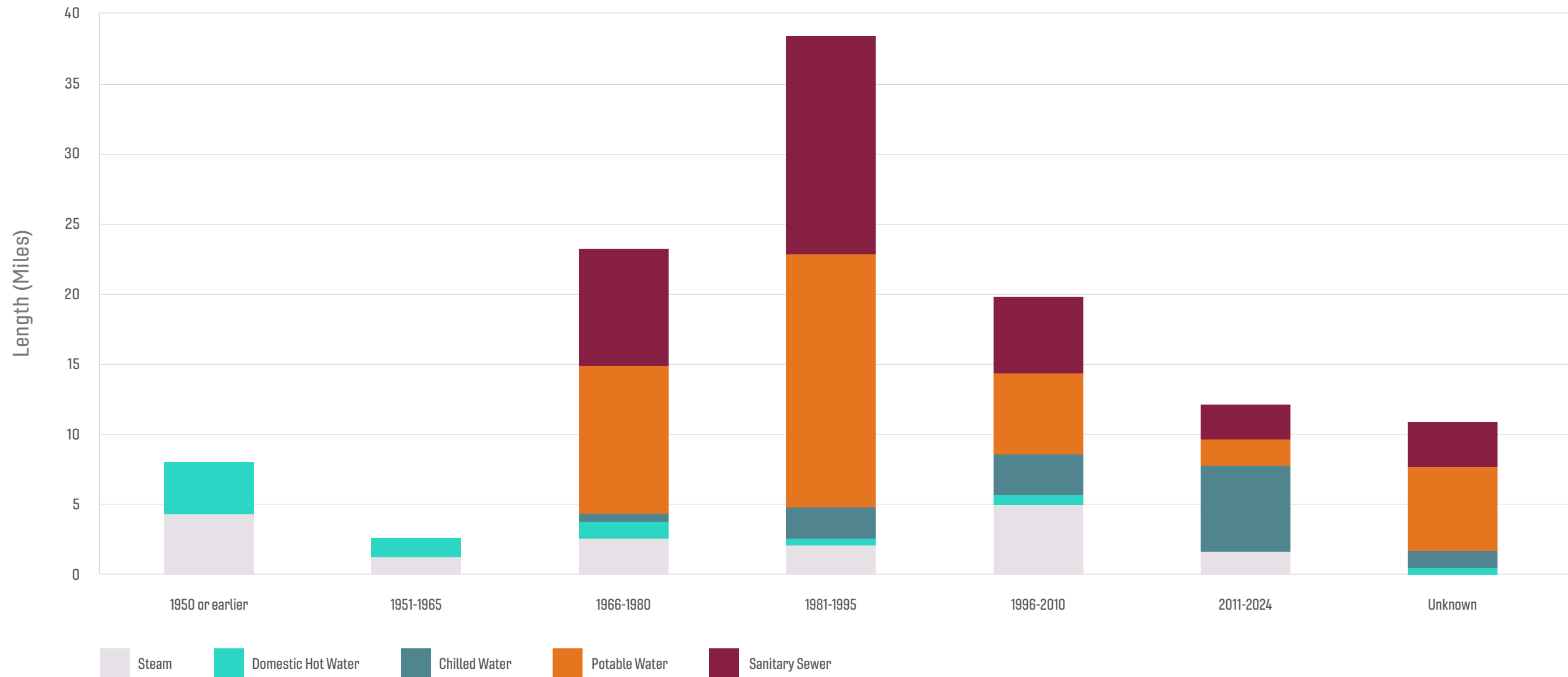


# Condition



## ASSET HEALTH, AGE, RISK ASSESSMENT

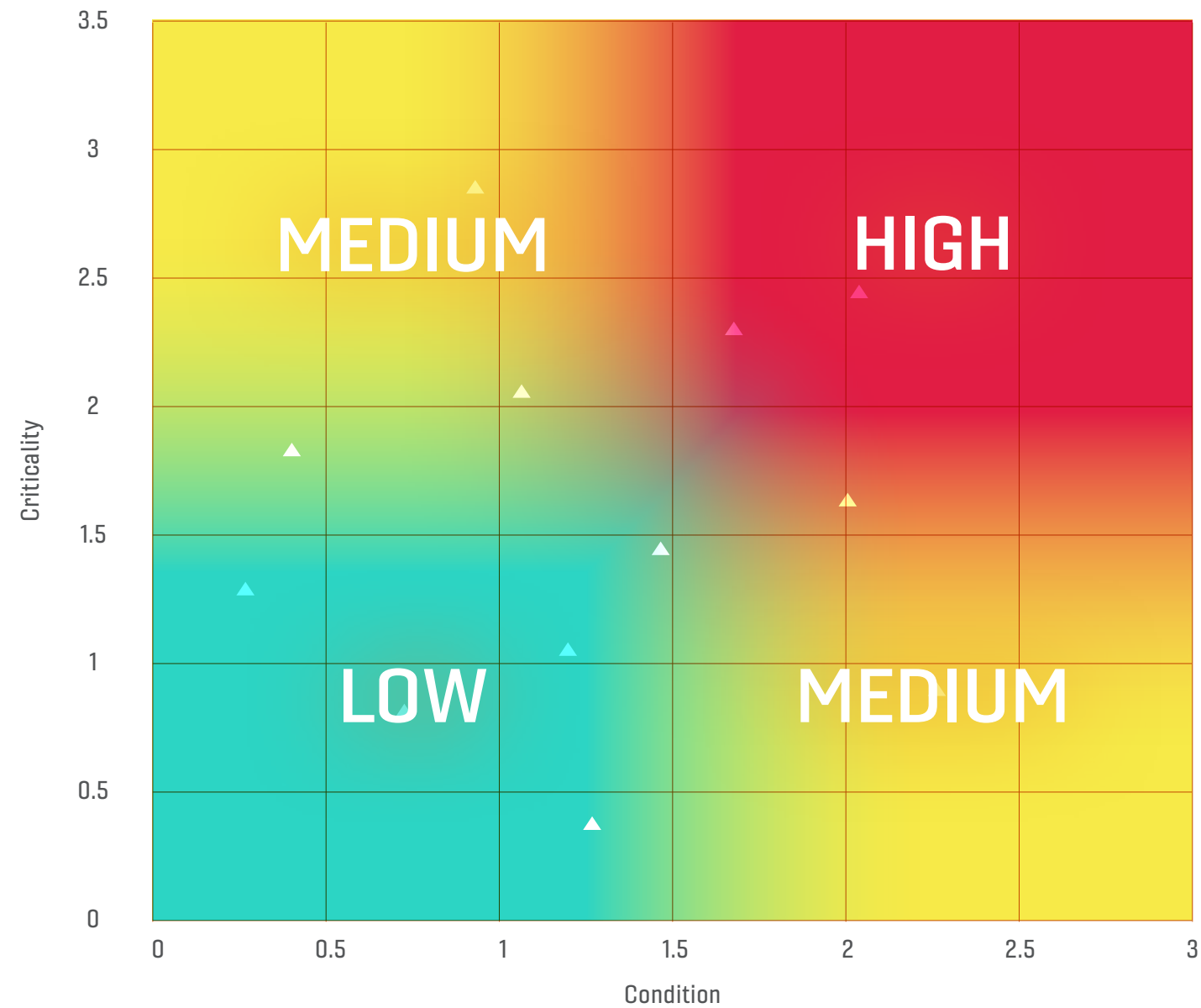
Utilities by Installation Date





# Priority Projects to Manage Risk

Condition vs Criticality



# 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

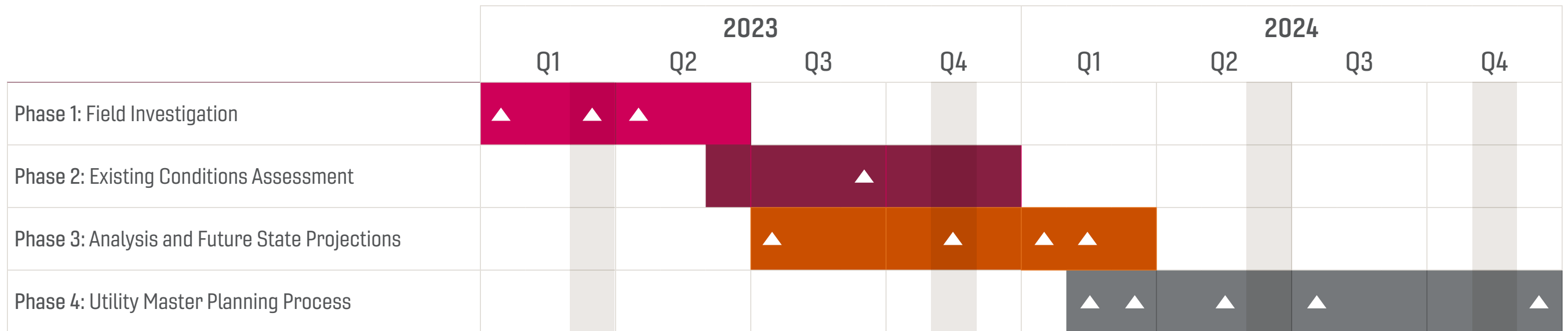


### Mechanical Utilities

- Waste water flow monitoring
- Replace high pressure steam expansion joints
- Replace condensate returns
- Replace water lines



# Ongoing Phases and Schedule



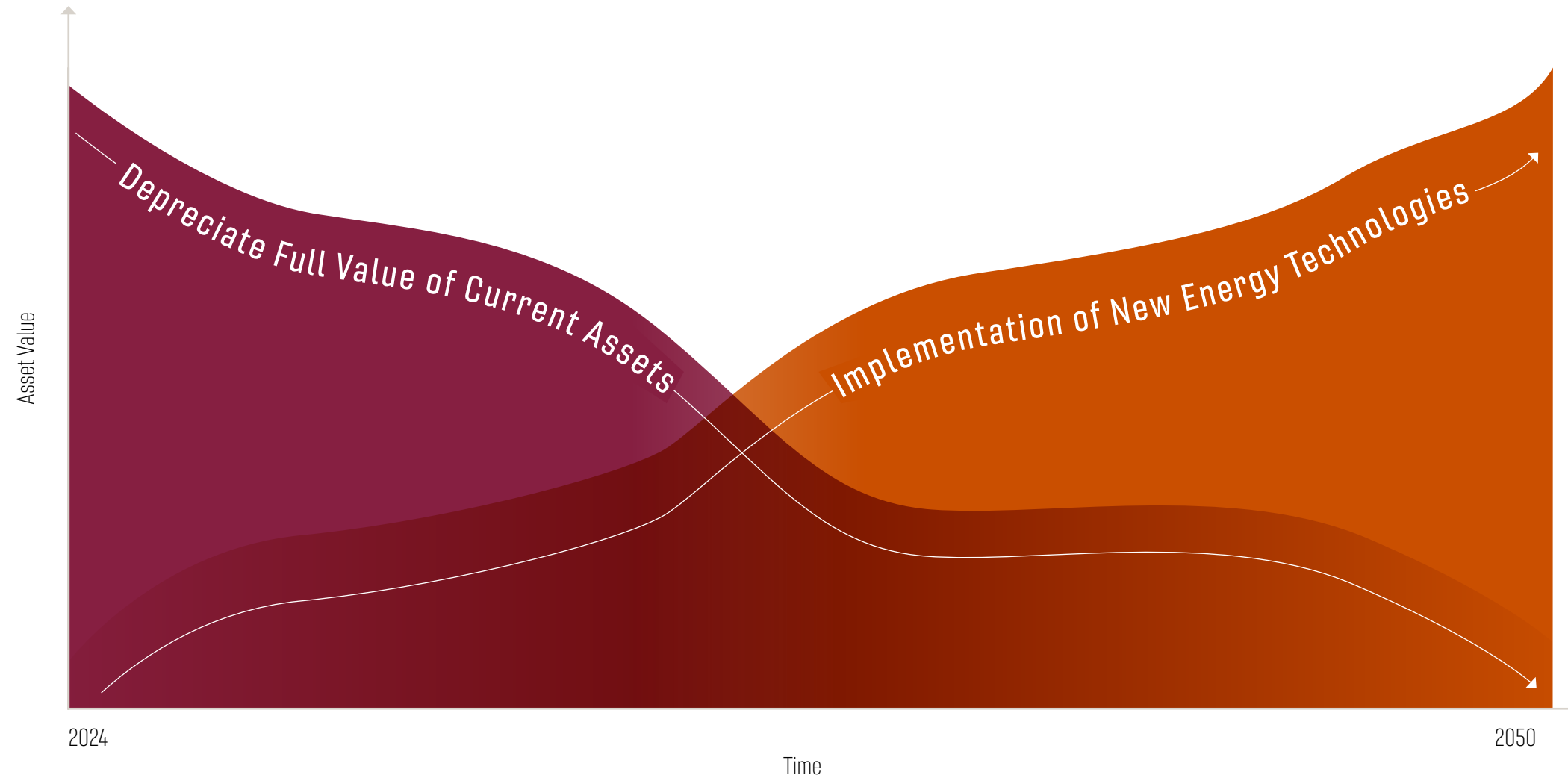
▲ Denotes collaborative stakeholder workshops

■ Denotes briefing to BOV Buildings and Grounds Committee

# Continuum of Energy Evolution

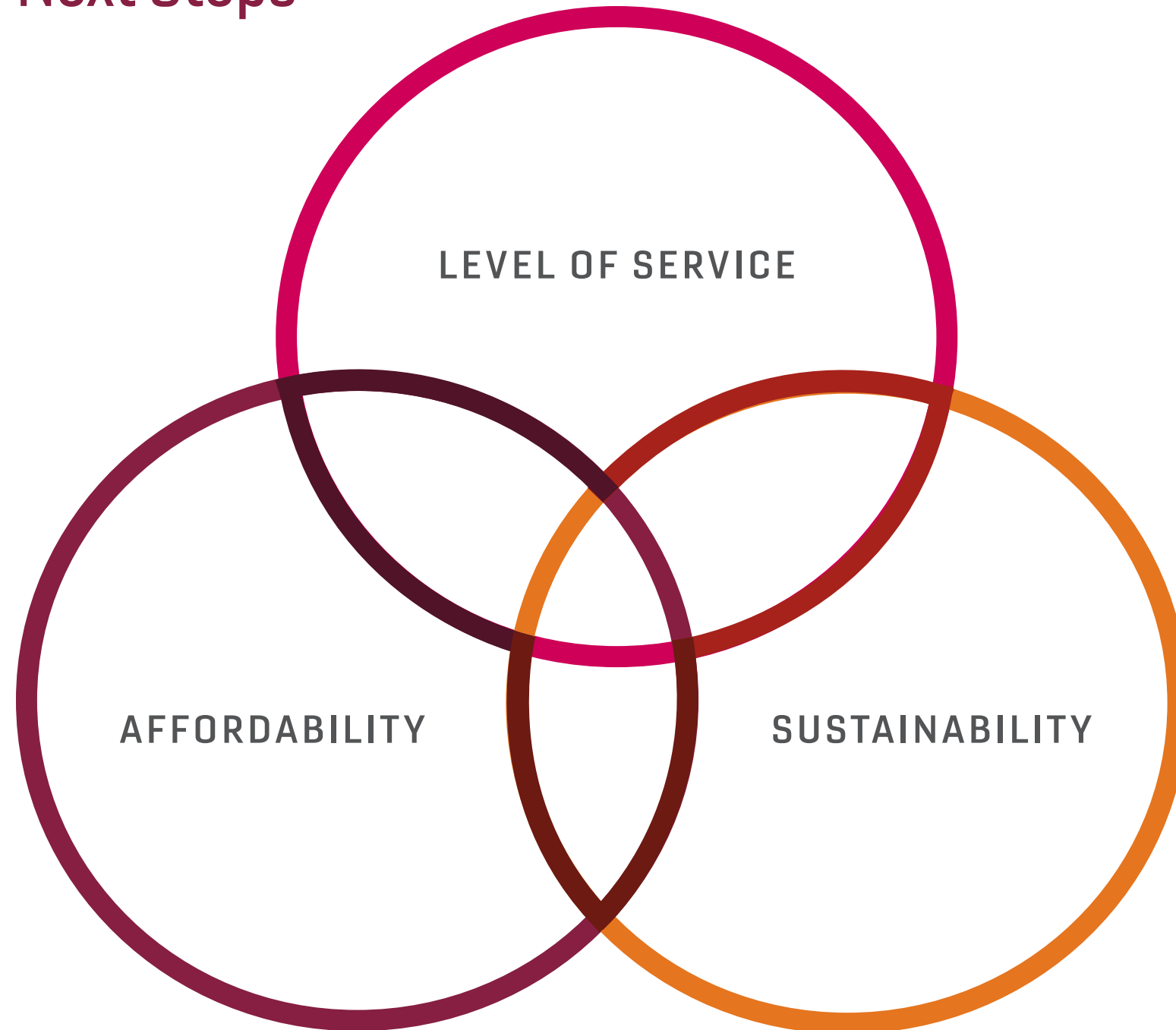


LEVERAGE ENERGY INNOVATION WHEN MATURED WHILE MAXIMIZING RETURN ON INVESTED ASSETS





# 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 Programming**