



# UVA Board of Visitors Buildings and Grounds Committee

September 15, 2022



# Agenda

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- Remarks by the Chair
- Action Items
  - Schematic Design: Physics Building Classroom Renovation
  - Darden School of Business Master Plan
  - Demolition of University Gardens
  - Addition to the Major Capital Plan: UVA | NOVA Fairfax (tenant fit out)
- Report by the Senior Vice President for Operations & State Government Relations
  - 2021-2022 Sustainability Report
  - Implementation of Capital Program Recommendations



# Schematic Design: Physics Building Classroom Renovation

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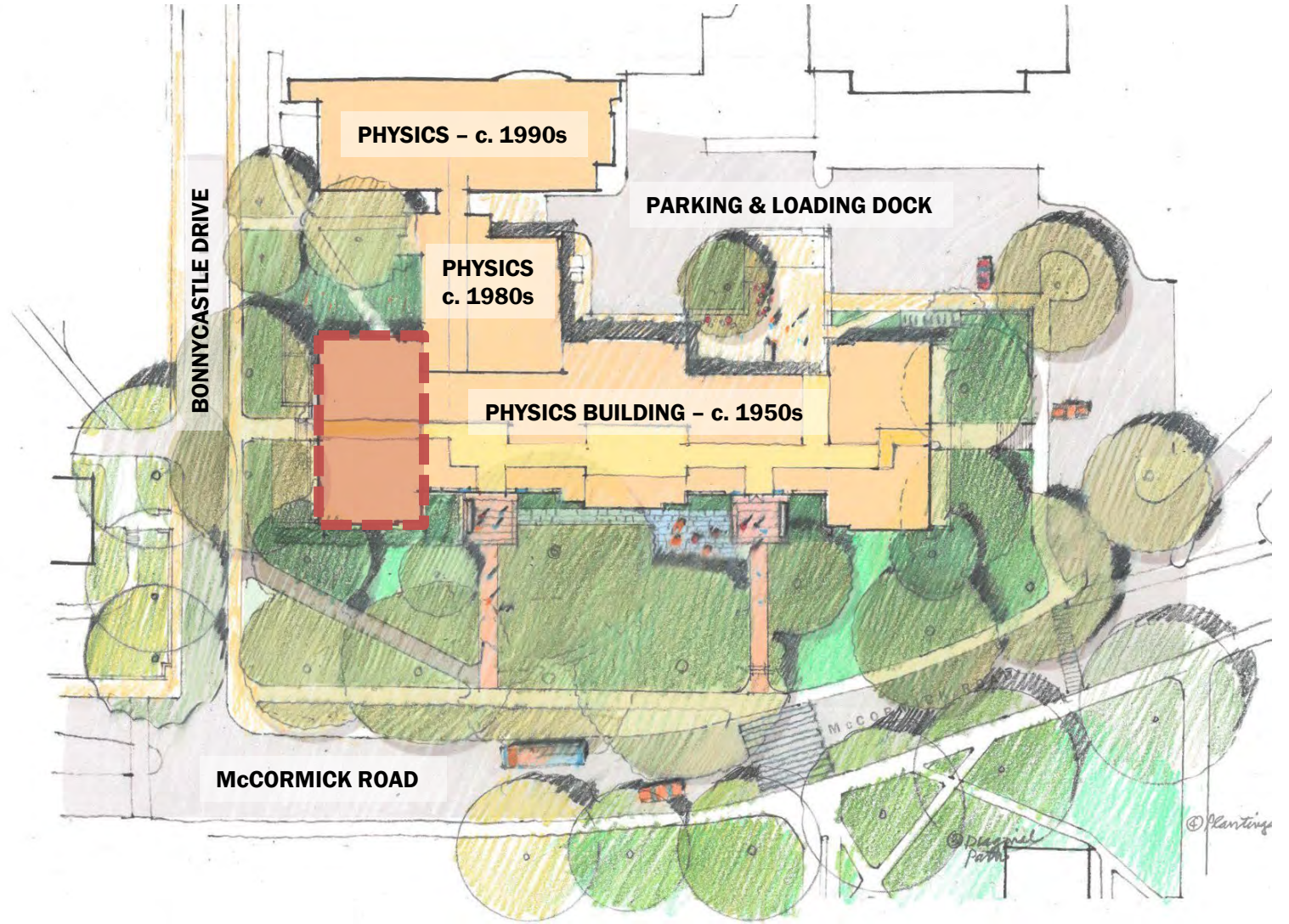


# UNIVERSITY OF VIRGINIA

## Physics Classroom Renovation – Site Plan



Vicinity Map

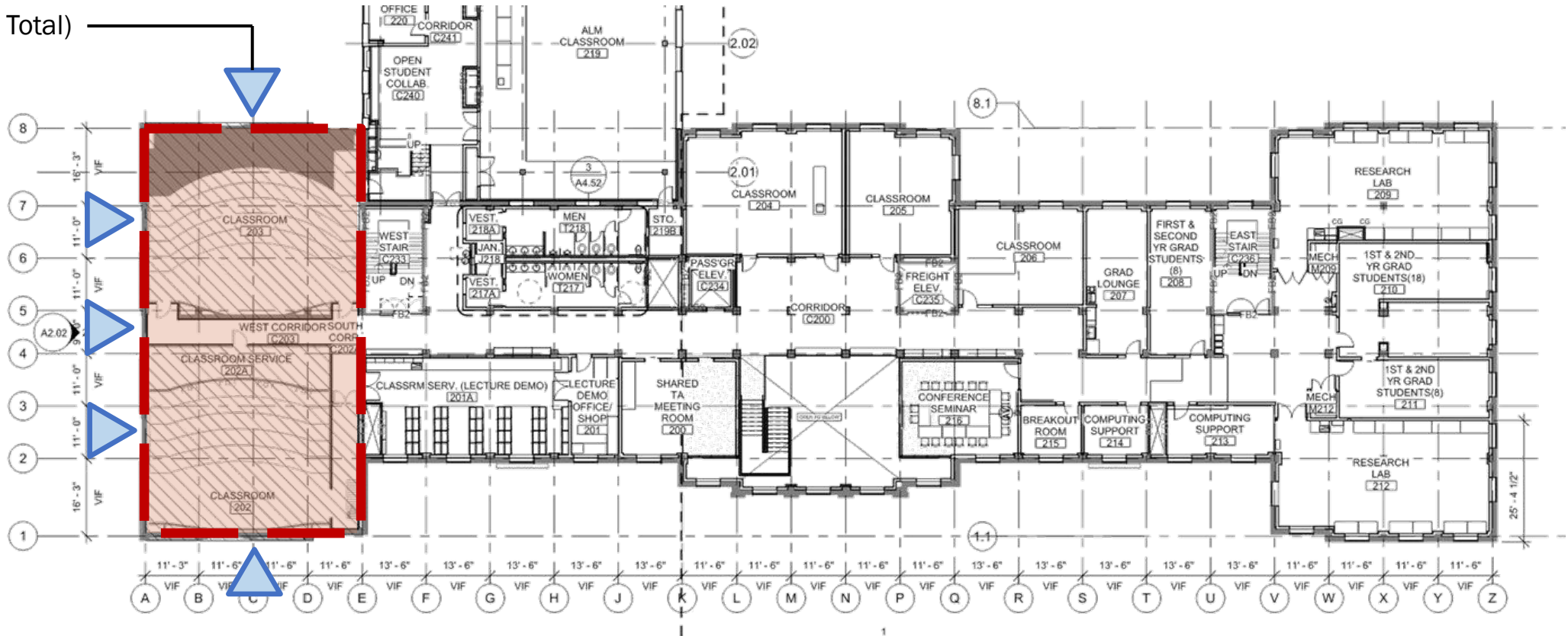


Site Plan

# UNIVERSITY OF VIRGINIA

## Physics Classroom Renovation – Floor Plan

New Windows (5 Total)



Second Floor Plan (Third Floor Similar)



# UNIVERSITY OF VIRGINIA

## Physics Classroom Renovation – Existing Elevations



# UNIVERSITY OF VIRGINIA

## Physics Classroom Renovation – Proposed Elevations





# UNIVERSITY OF VIRGINIA

## Physics Classroom Renovation – Window Precedents



Thornton Hall



New Cabell Hall



Bonnycastle



# UNIVERSITY OF VIRGINIA

## Physics Classroom Renovation – Existing and Proposed Rendering



Existing West Facade



Proposed West Facade



# UNIVERSITY OF VIRGINIA

## Physics Classroom Renovation – Existing and Proposed Rendering



View from Bonnycastle Drive



Existing North Facade



Proposed North Facade

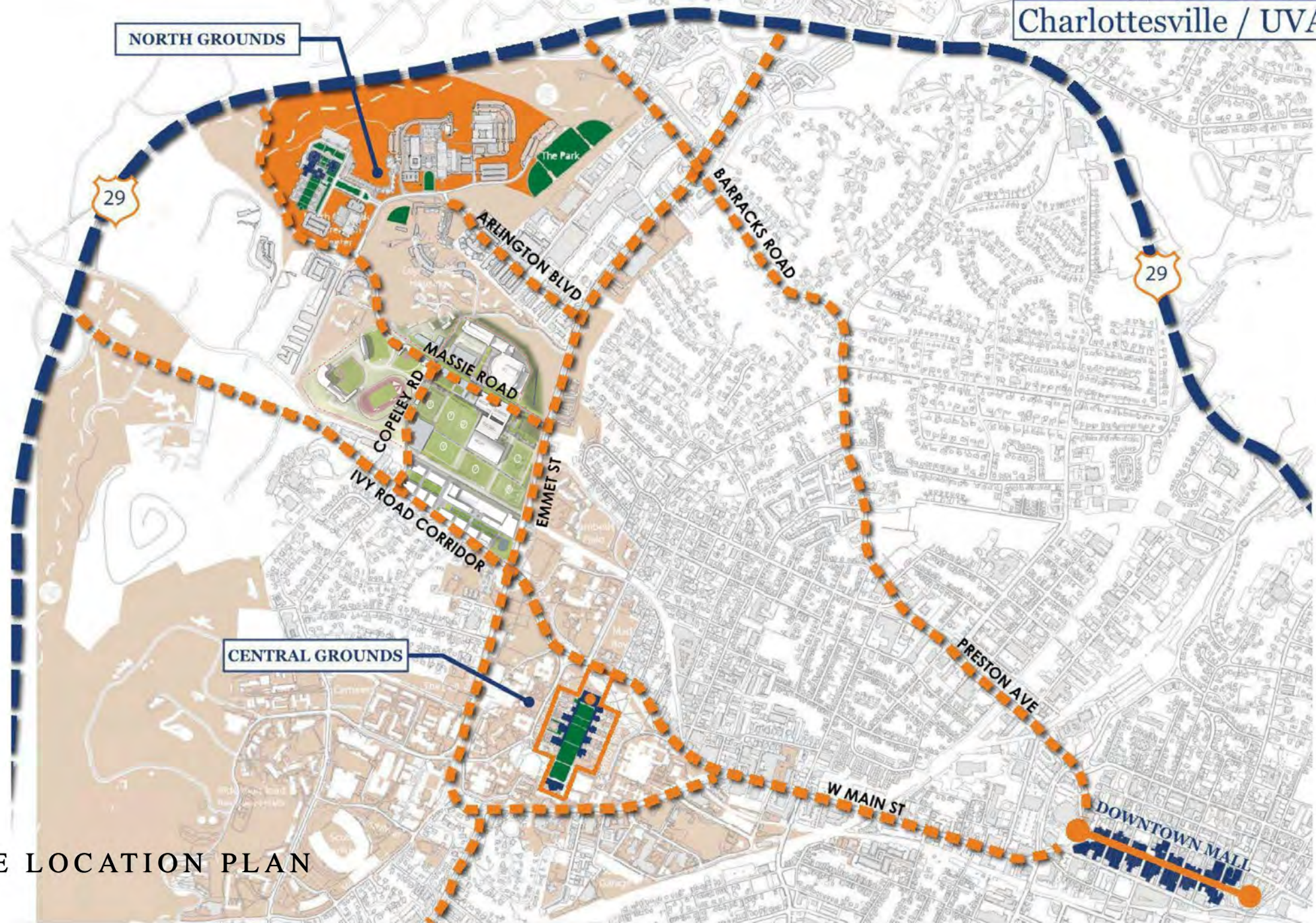


# Darden School of Business Master Plan

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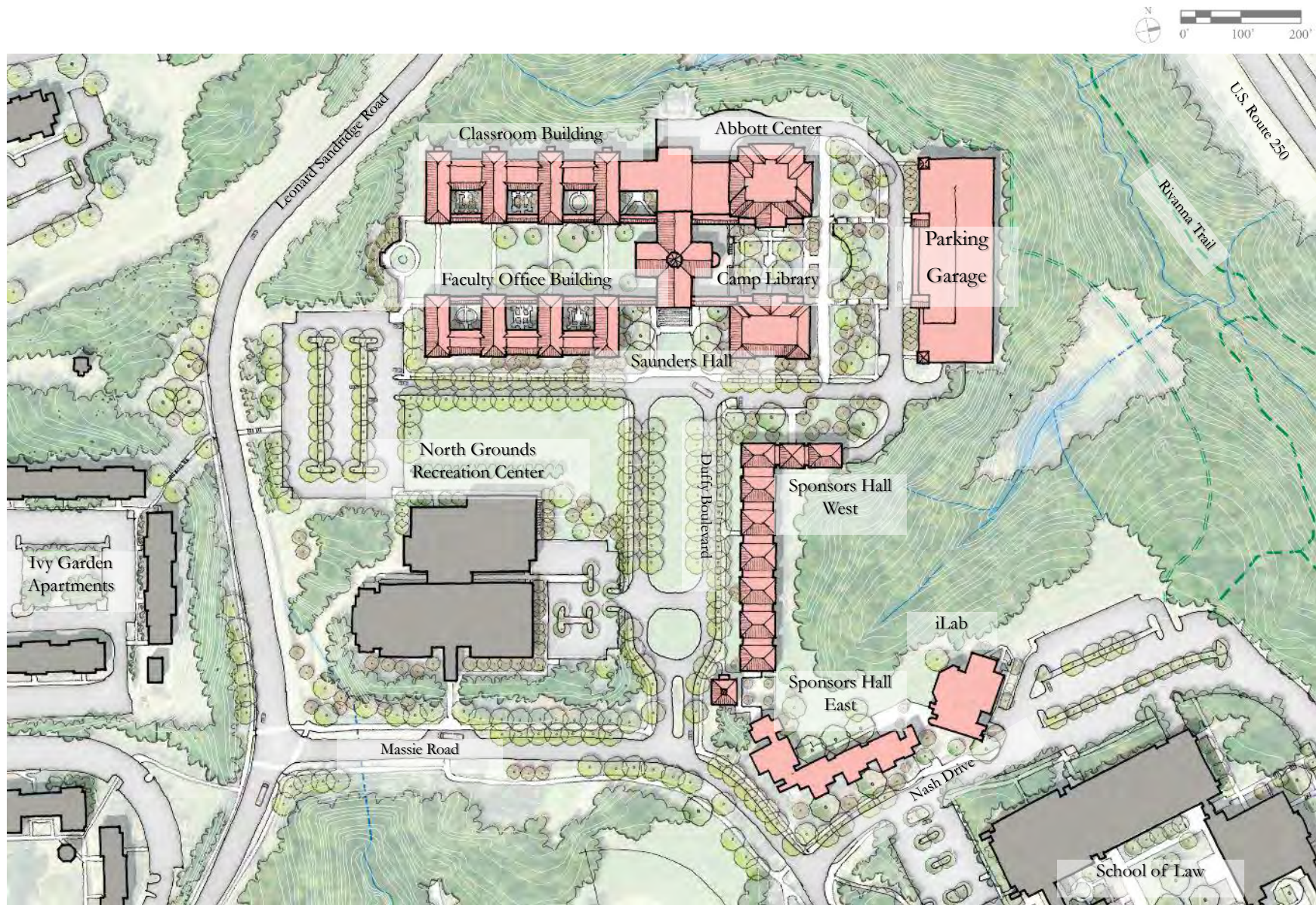






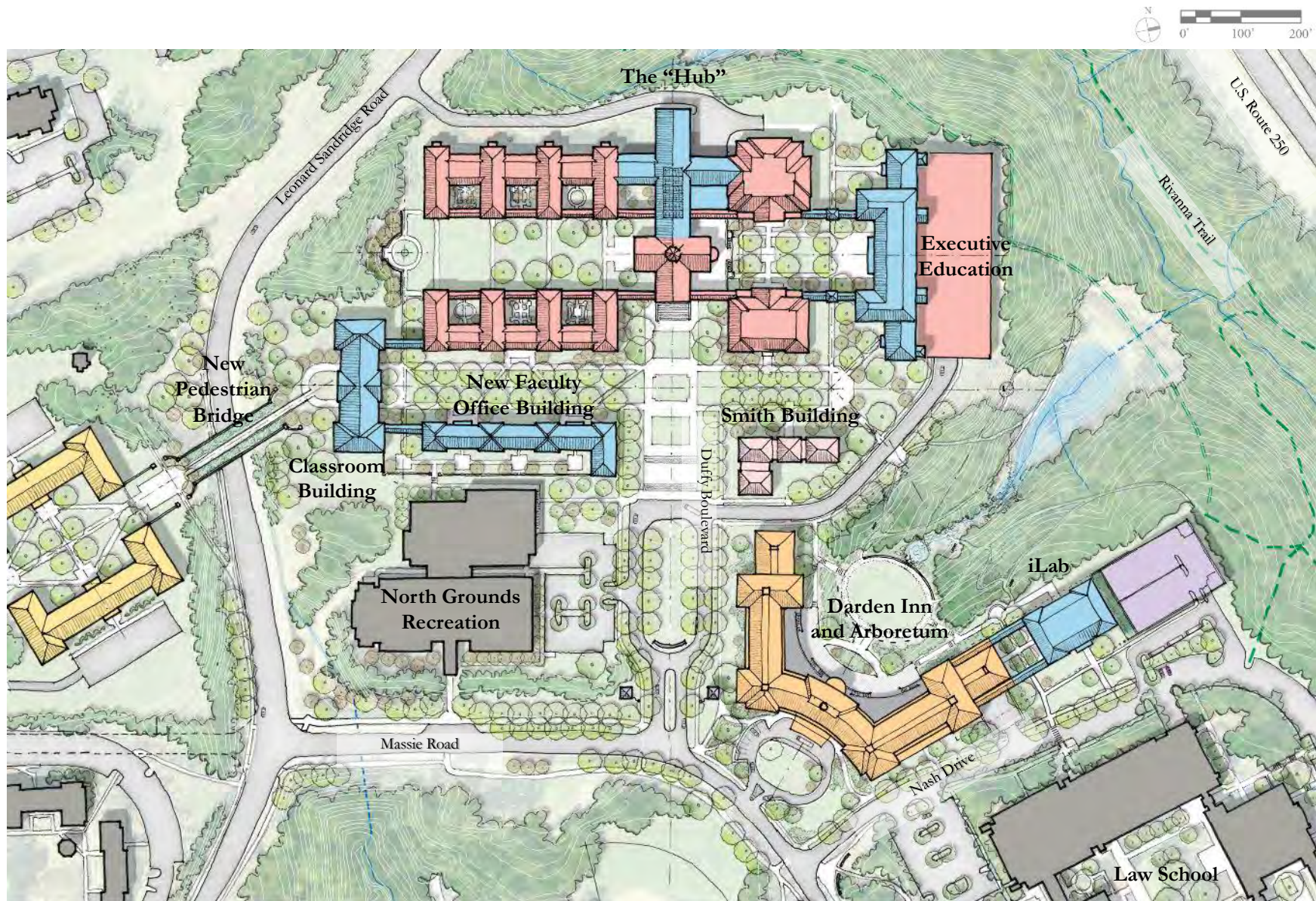
SITE LOCATION PLAN





EXISTING CONDITIONS PRIOR TO NEW INN AND ARBORETUM





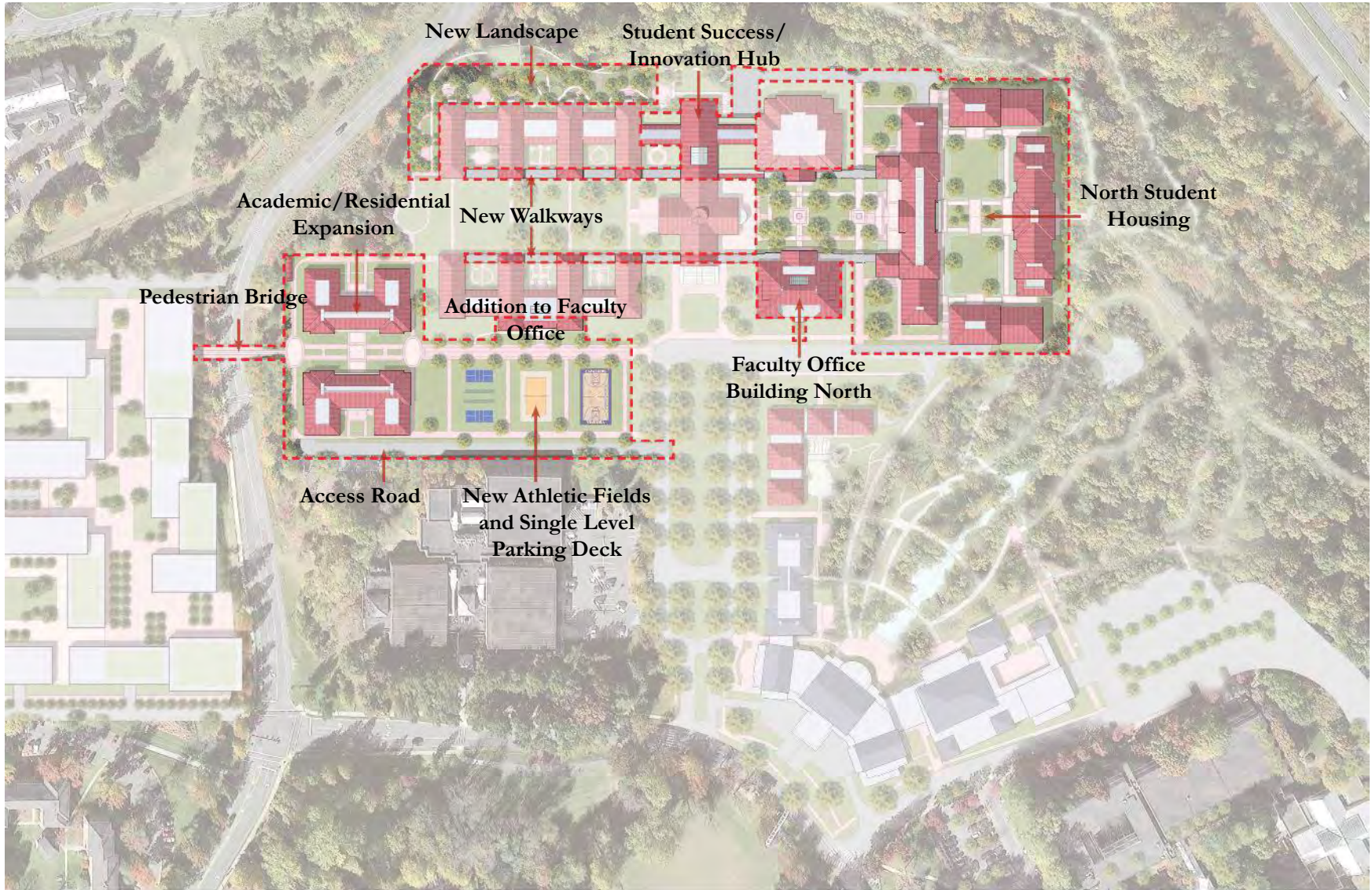
2017 MASTER PLAN





2022 DARDEN VISION PLAN





2022 DARDEN VISION PLAN - ADDITIONS





2022 DARDEN VISION PLAN







2022 DARDEN VISION PLAN WITH IVY GARDENS MASTER PLAN





EXISTING VIEW FROM THE NORTHEAST





PROPOSED VIEW FROM THE NORTHEAST





EXISTING VIEW FROM THE SOUTHEAST





PROPOSED VIEW FROM THE SOUTHEAST





EXISTING SAUNDERS HALL





SAUNDERS HALL WITH PROPOSED "HUB" EXPANSION





AERIAL VIEW FROM THE SOUTHEAST



# Demolition of University Gardens

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# Demolition of University Gardens

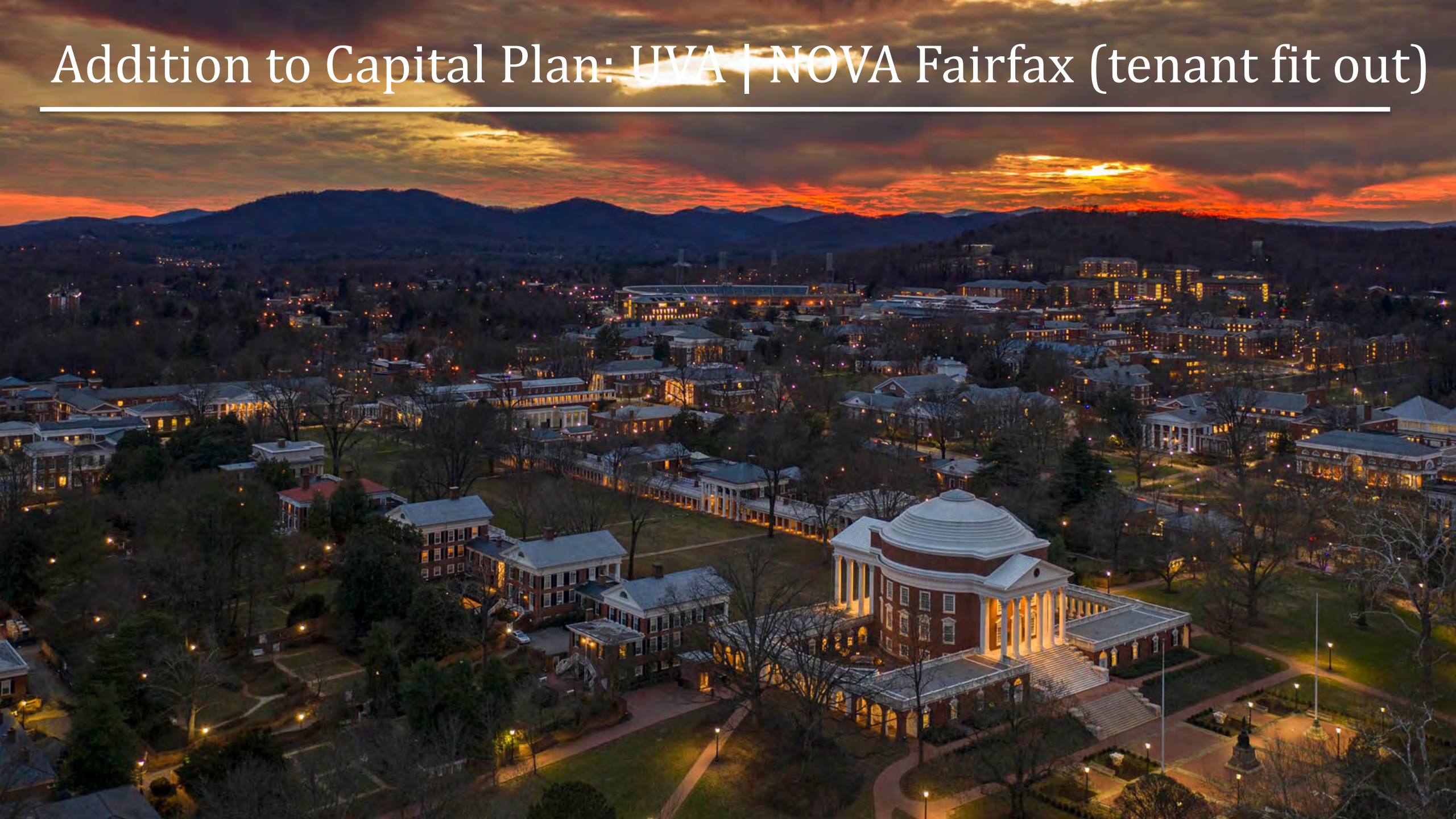
- Graduate student housing built in 1948
- 60 apartments in 8 buildings have significant structural and system deficiencies and have reached end of useful life
- Based on current condition, cost to renovate, and ongoing operating costs, recommend demolishing complex
- Will explore options for future use of site





# Addition to Capital Plan: UVA | NOVA Fairfax (tenant fit out)

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# UVA | NOVA Fairfax (tenant fit out)

- Tenant fit out of over 50,000 SF leased space at Inova Center for Personalized Health Campus in Fairfax, VA
- Support educational programming for UVA | NOVA
  - Classrooms, offices, conference rooms, reception space, open work areas
  - Structural and infrastructure enhancements
- Project budget: \$20.6M





# 2021-2022 Sustainability Report

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# 2020-2030 GOALS

## Serving our Community & the Environment

*(approved by the Board of Visitors, December 2019)*

- 1. Be carbon neutral by 2030 and fossil fuel free by 2050**
2. Achieve the “30 by 30” goals by 2030 (relative to 2010 levels)
  - Reduce water use and reactive nitrogen losses by 30%
  - Reduce our waste footprint to 30%
  - Increase sustainable food purchases to 30% by 2030
3. Partner with our community to accelerate collaborative initiatives to advance sustainable, equitable, and healthy places for all
4. Enhance sustainability-focused research and curriculum





# 2020-2030

## PLAN PROGRESS



43%

REDUCTION IN GREENHOUSE GAS EMISSIONS SINCE 2010

370

SUSTAINABILITY-RELATED COURSES

1 of 70

COLLEGES WORLDWIDE WITH AASHE STARS GOLD (V2.1)

4,000

POUNDS OF COMPOST COLLECTED BY ZERO WASTE AMBASSADORS

78

LEED-CERTIFIED BUILDINGS ON GROUNDS AND AT COLLEGE AT WISE

\$21.6M

SAVED DUE TO ENERGY EFFICIENCY MEASURES OVER THE PAST 3 YEARS

26.5%

REDUCTION IN POTABLE WATER CONSUMPTION SINCE 2010

33%

OF UVA DINE'S FOOD AND DRINK BUDGET SPENT ON SUSTAINABLE PRODUCTS

\$5M

NATIONAL GRANT RECEIVED FOR COASTAL FUTURES HUB

4

BATTERY ELECTRIC BUSES PURCHASED, ARRIVING IN FALL 2023

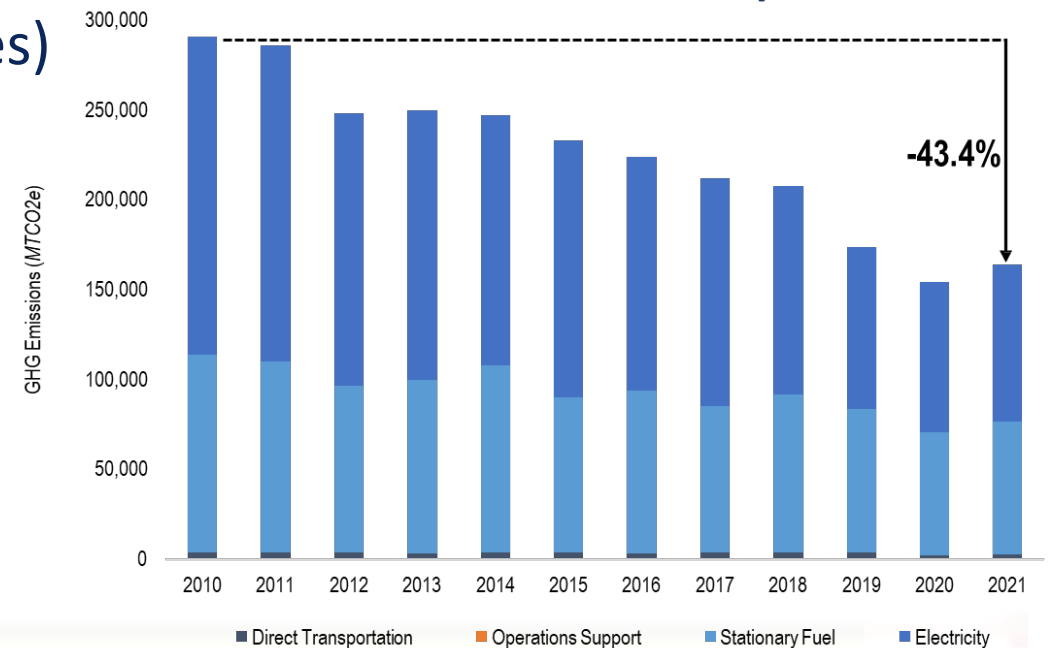


# 2020-2030 Plan Progress: Steward

- Since 2010, have reduced greenhouse gases by 43% and potable water consumption by 26.5%
- \$21.6M saved over 3 years through energy efficiency upgrades
- 33% of UVA Dine's food and beverage budget spent on sustainable products
- Green fleet (low-emission vehicles, electric buses)
- 78 LEED-certified buildings (4.5 million SF)



UVA 2021 Carbon Footprint





# 2020-2030 Plan Progress: Engage

- Expanded student volunteer opportunities through Service Learning program
- Reduced waste through Zero Waste Ambassadors and Eco-Leaders programs
- Increased participation in Sustainability Advocates program
- Enhanced engagement with City, County, and other institutions of higher education





# 2020-2030 Plan Progress: Discover

- Expanded sustainability-related teaching and research offerings (370 sustainability-related courses)
- Environmental change and human well-being research through Environmental Research Institute (ERI)
- Enhanced academic outreach (Climate & Health Conference, Morven Farm, Decarbonization Academy)





# SUSTAINABILITY

## RECENT RECOGNITION



## AASHE STARS – GOLD

*PRINCETON REVIEW GUIDE TO GREEN COLLEGES 2022*

**BEE CAMPUS USA CERTIFICATION  
XERES SOCIETY**

***Green Fleet Award, National Association  
of Fleet Administrators***

TREE CAMPUS USA, ARBOR DAY FOUNDATION

***Governor's Award for Environmental Excellence  
2022 – Waste Minimization***

**LEAGUE OF AMERICAN BICYCLISTS BICYCLE FRIENDLY  
UNIVERSITY – SILVER**

*EPA GREEN POWER PARTNER 2022 –  
TOP 30 IN U.S. HIGHER EDUCATION*

***APPA 2022 Award and NAFA “Best Special Project”  
Award – UVA Mindful Driving Program***

2021 IDEA INNOVATION AWARD,  
INDUSTRIAL DISTRICT ENERGY ASSOCIATION



# Implementation of Capital Program Recommendations

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# Goals and scope of work

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## **Primary goals**

- Evaluate total cost (i.e., project cost) of major capital projects at UVA
- Identify primary cost drivers and benchmark costs against comparable institutions
- Develop recommendations to address factors that influence cost of capital projects at UVA

## **Scope of work**

- Assessed factors and trends that influence the cost of capital projects
- Conducted interviews with Board members; executive leadership; project sponsors and others involved in capital process; external architects and contractors that have worked on UVA projects
- Provided detailed report of findings and recommendations



# Summary of HKA's Findings

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- UVA's costs are in line with other institutions and industry norms
  - Key drivers include project scope (program, building size), design processes and standards, and market conditions
- UVA's governance model has many positive elements and is staffed by competent and dedicated professionals
- Several opportunities to improve program
  - Cost savings opportunities
  - Governance improvements



# Capital Program Improvements Status Report

Area		Recommendations	Priority	Timeline/Target Completion	Status
1	Program / Project Ownership	Develop and implement project charter process	High	Begin implementing with capital projects initiated in summer/fall 2022	●
2	Project Management Processes & Tools	Develop a coordinated set of project management procedures and tools/templates	Medium	Fall 2022	●
		Devise an oversight strategy to ensure project teams are complying with required processes	Low	Fall 2022	●
3	Reporting & Communication	Prepare regular program-level dashboard reports	High	Summer/fall 2022	●
		Prepare regular project status reports	High	In progress; full implementation by late fall 2022	●
		Explore additional e-Builder reporting capabilities	Low	TBD	○
		Develop a Campus Client Guide	Medium	Fall 2022	●
4	Budget Development & Management	Conduct a more rigorous budget development process that includes applying risk management principles to formally establish, track, and forecast contingency needs	High	Implement with project charter	●
		Track subsequent adjustments to the approved budget and basis of estimate in a report/log that identifies the cause of any change and how increases will be funded	High	Implement with project charter	●







# Capital Program Improvements Status Report

Area		Recommendations	Priority	Timeline/Target Completion	Status
5	Design Management	Adhere to a design-to-budget approach	High	Implement with project charter	●
		Standardize value management logs	Medium	Implement with project charter	●
6	Design Criteria	Allow more economical design solutions based on building location and function (e.g., housing vs. academic)	Low	Design solution/options to be discussed at initial Project Steering Committee meeting	●
		Review and update Facility Design Guidelines (FDG)	Medium	FDGs reviewed and updated on a three-year cycle (most recent update December 2021)	●
7	Project Delivery Strategy	Consider the optimal project delivery method given a project's goals and constraints (e.g., CM at Risk may not be necessary for straightforward projects)	Low	Delivery method to be discussed at initial Project Steering Committee meeting	●
		When using early packages, ensure the design and CM teams have adequate time and resources to coordinate such work with the balance of design to avoid excessive scope gaps and change orders	Medium	Fall 2022	●



# Capital Program Improvements Status Report

	Area	Recommendations	Priority	Timeline/Target Completion	Status
8	Change Management	Develop and implement a detailed change order management process to promote consistency in the assessment and negotiation of contractor change order proposals	High	Fall 2022	
9	Risk Management	Establish a standard risk management process that includes developing and updating a risk register for the duration of a project	High	Implement with project charter	
10	Cost & Schedule Management	Regularly monitor and report out on cost and schedule variances and trends	High	Summer/fall 2022	
11	Lessons Learned	Develop a standard process and format for discussing and documenting lessons learned	Low	Late 2022	
12	Staff Development & Training	Develop and enhance in-house scheduling, estimating, and risk management expertise.	Low	Fall 2022	