



UNIVERSITY
of VIRGINIA

Board of Visitors Buildings & Grounds Committee
December 6, 2019

Agenda

Schematic Design Review

- Brandon Avenue Upper-Class Residence Hall Phase II

Action Items

- Naming: Softball Stadium as Palmer Park
- 2020-2030 Sustainability Plan

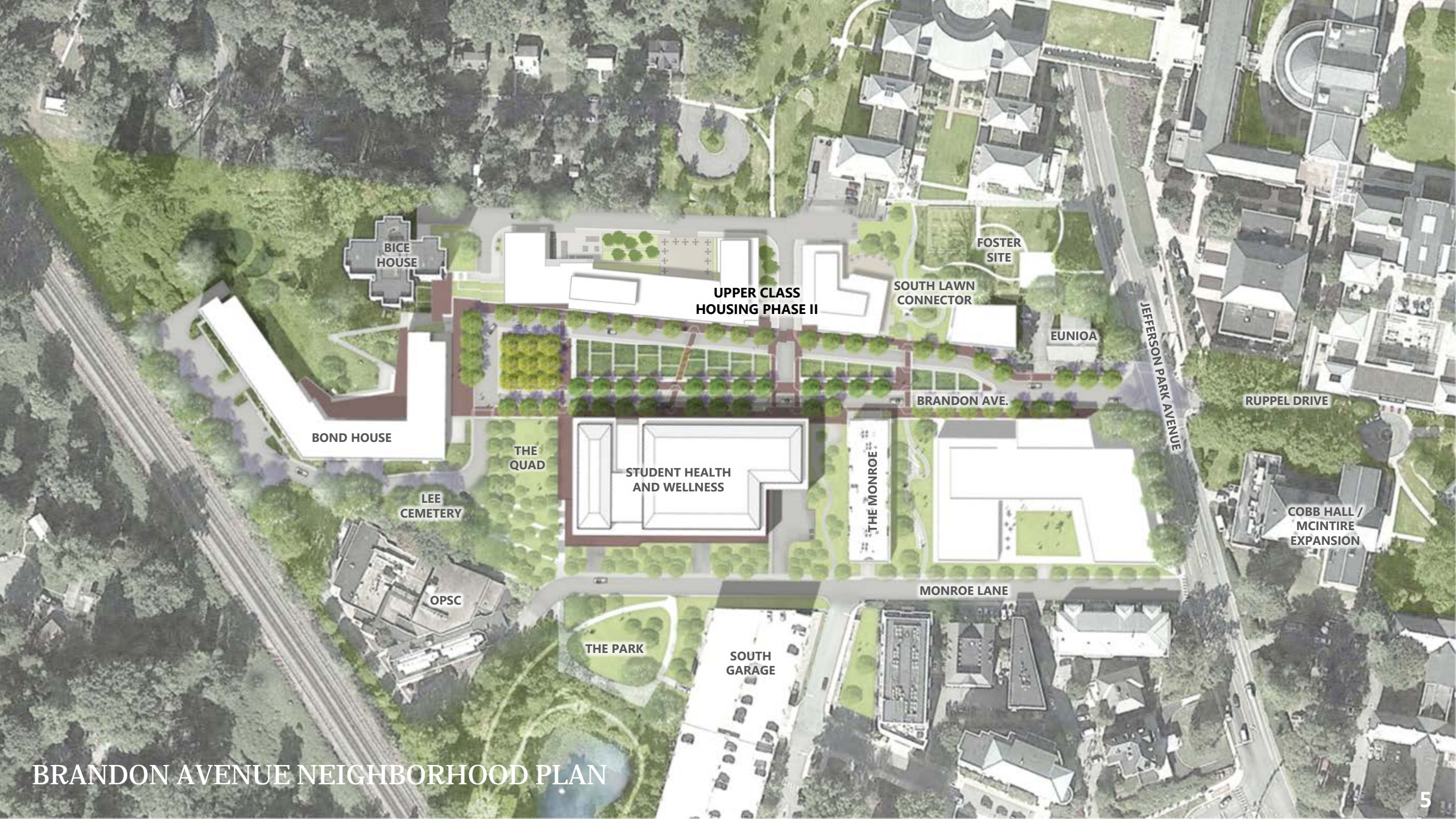
Report by the Senior Vice President for Operations

Schematic Design Review: Brandon Avenue Residence Hall II





PROPOSED AERIAL VIEW LOOKING NORTHWEST



BICE HOUSE

BOND HOUSE

UPPER CLASS HOUSING PHASE II

SOUTH LAWN CONNECTOR

FOSTER SITE

EUNIOA

BRANDON AVE.

THE QUAD

STUDENT HEALTH AND WELLNESS

THE MONROE

LEE CEMETERY

RUPPEL DRIVE

COBB HALL / MCINTIRE EXPANSION

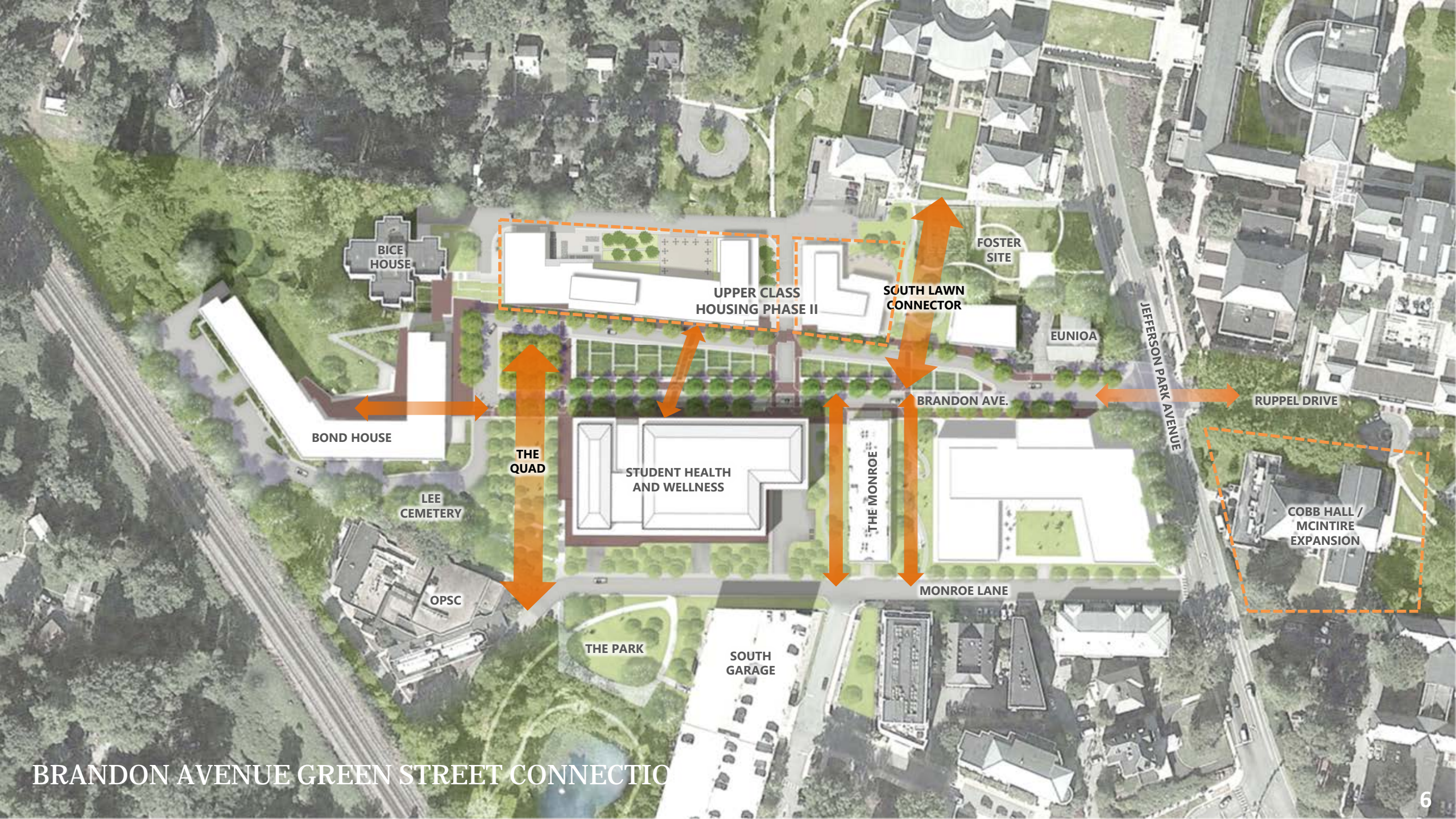
OPSC

MONROE LANE

THE PARK

SOUTH GARAGE

BRANDON AVENUE NEIGHBORHOOD PLAN



BICE HOUSE

BOND HOUSE

LEE CEMETERY

OPSC

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COBB HALL / MCINTIRE EXPANSION

RUPPEL DRIVE

JEFFERSON PARK AVENUE

BRANDON AVENUE GREEN STREET CONNECTIO

- Common Areas
- Private / Program
- Outdoor Gathering



UCH PHASE II
 Dining Spaces
 Open Lounges
 Study Meeting Spaces

BICE HOUSE
 Student Lounge
 Computer Lab
 Laundry Room

BOND HOUSE
 Democracy Initiative /
 Student Lounge Space
 Package Center
 Student Lounges

STUDENT HEALTH AND WELLNESS
 Living Room Lounge
 Retail Pharmacy
 Meeting Spaces
 Teaching Kitchen
 Quiet Lounge

LANGUAGE HOUSES
 Student Lounges
 Mail Room
 Dining Rooms
 Kitchens
 Study Rooms

COBB HALL
 Atrium

SOUTH LAWN
 Coffee Shop
 Lounge Seating Spaces

CABELL HALL

WILSON HALL

JEFFERSON PARK AVENUE

BRANDON AVENUE

UCSH 2

SOUTH LAWN

BICE HOUSE

SITE C

SITE B

BOND HOUSE

STUDENT HEALTH

SHEA HOUSE

McINTIRE EXPANSION

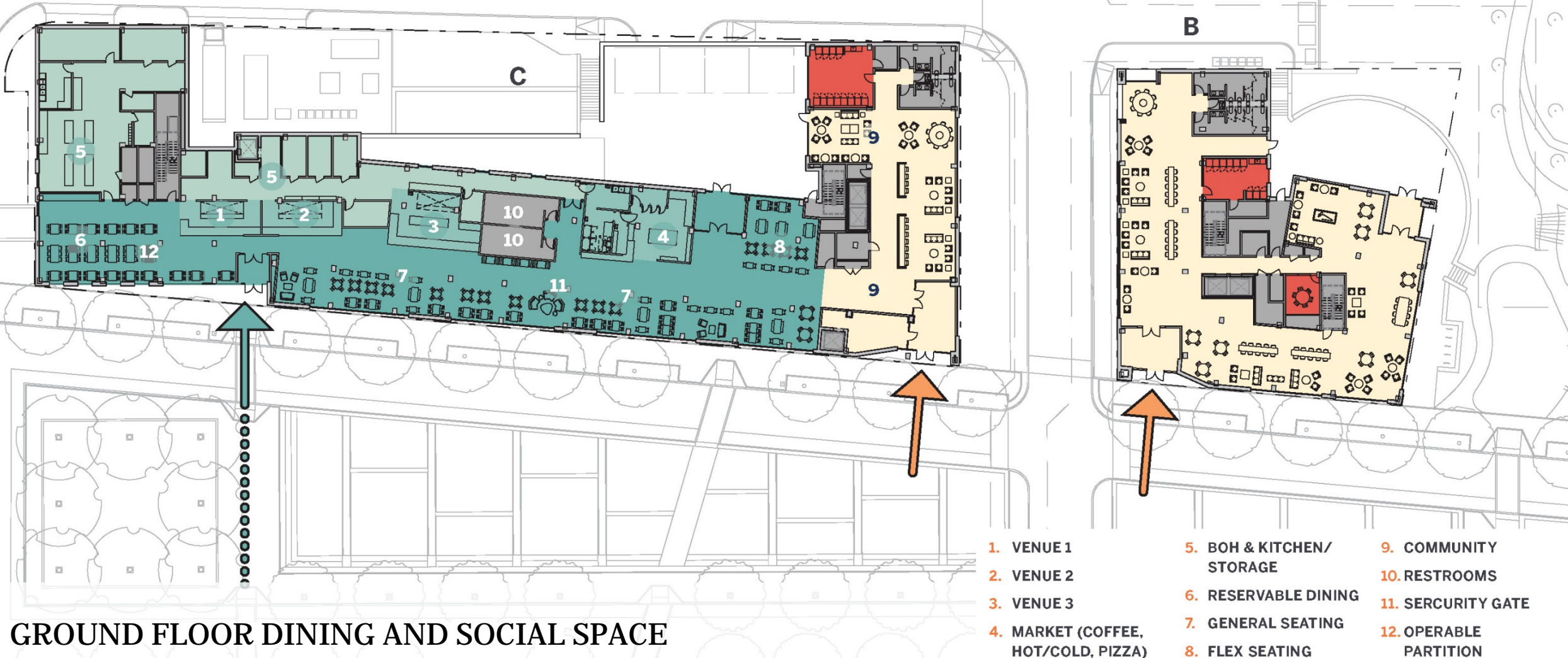
CASA BOLIVAR

BRANDON AVENUE DISTRICT COMMUNITY SPACE

STATISTICS

- Building C Dining: 16,000 SF
- Building C Community: 6,881 SF
- Building B Community: 9,765 SF

INTERIOR SEATS: 300





PROPOSED VIEW LOOKING SOUTHWEST

Contrasting Base

- Brick and Cast Stone



Bond House

Exterior Walls

- Brick



Student Health and Wellness

Windows and Glazing

- Vertical Orientation



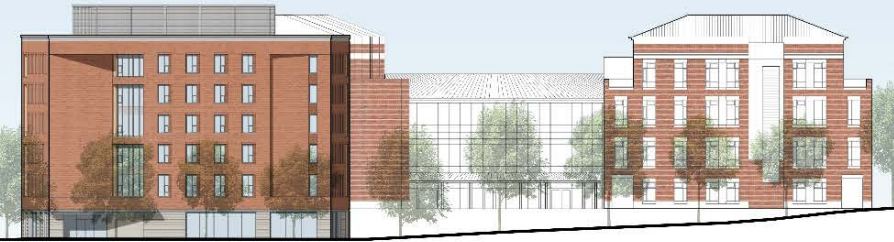
South Lawn



Bice House



Upper-class Housing II



South Lawn



PROPOSED VIEW LOOKING NORTHWEST



PROPOSED VIEW FROM VALLEY ROAD NEIGHBORHOOD



Action Items



Naming: Softball Stadium as Palmer Park



- Recommend approval of naming the new softball stadium, scheduled for completion in January 2020, as Palmer Park
- Lisa Palmer, a 1989 graduate of the University, is a former softball player who was awarded Academic All-American honors in her fourth year
- Naming recognizes generous philanthropic support by Ms. Palmer

UVA SUSTAINABILITY

2020-2030 SUSTAINABILITY PLAN

A GREAT AND GOOD UNIVERSITY

UVA SUSTAINABILITY FRAMEWORK



STEWARD our resources on Grounds and beyond by living our values through our actions and operations



ENGAGE in our community, serve our community, and build sustainability awareness



DISCOVER new solutions to global challenges through research, curriculum, and using the Grounds as a learning tool

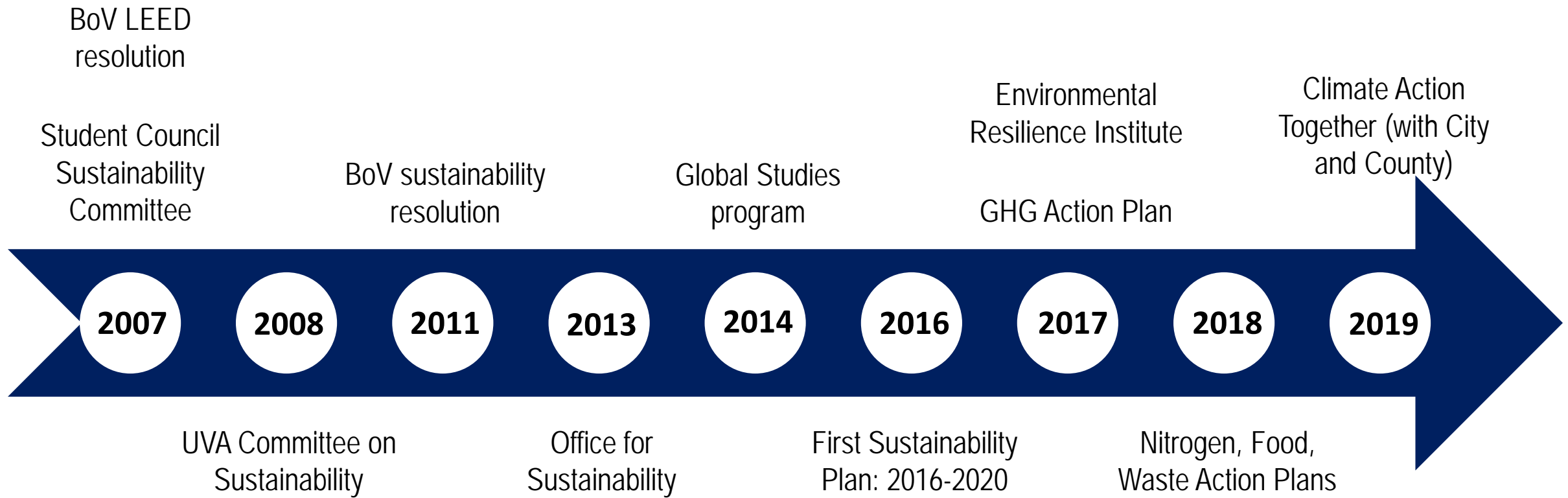
2020-2030 GOALS

Serving our Community & the Environment

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



UVA Sustainability Strategic Planning Milestones



Milestones prior to 2007: award-winning energy, waste and water programs; increased student interest and grassroots initiatives

Living Our Values: Climate Action Strategies – UVA's Progress

UVA TOPS ACC RIVALS IN GREEN ENERGY CHALLENGE



Among many efforts to expand its use of green energy, the University has signed long-term contracts with Dominion Energy to purchase the output of two solar farms. (Contributed photo)

UVA'S DELTA FORCE RECEIVES ENERGY INNOVATION AWARD



UVA's "Delta Force" saved more than \$700,000 annually in its refit of Clark Hall.

ON EARTH DAY, UVA SPOTLIGHTS NEW COMPREHENSIVE SUSTAINABILITY PLAN



UVA Today

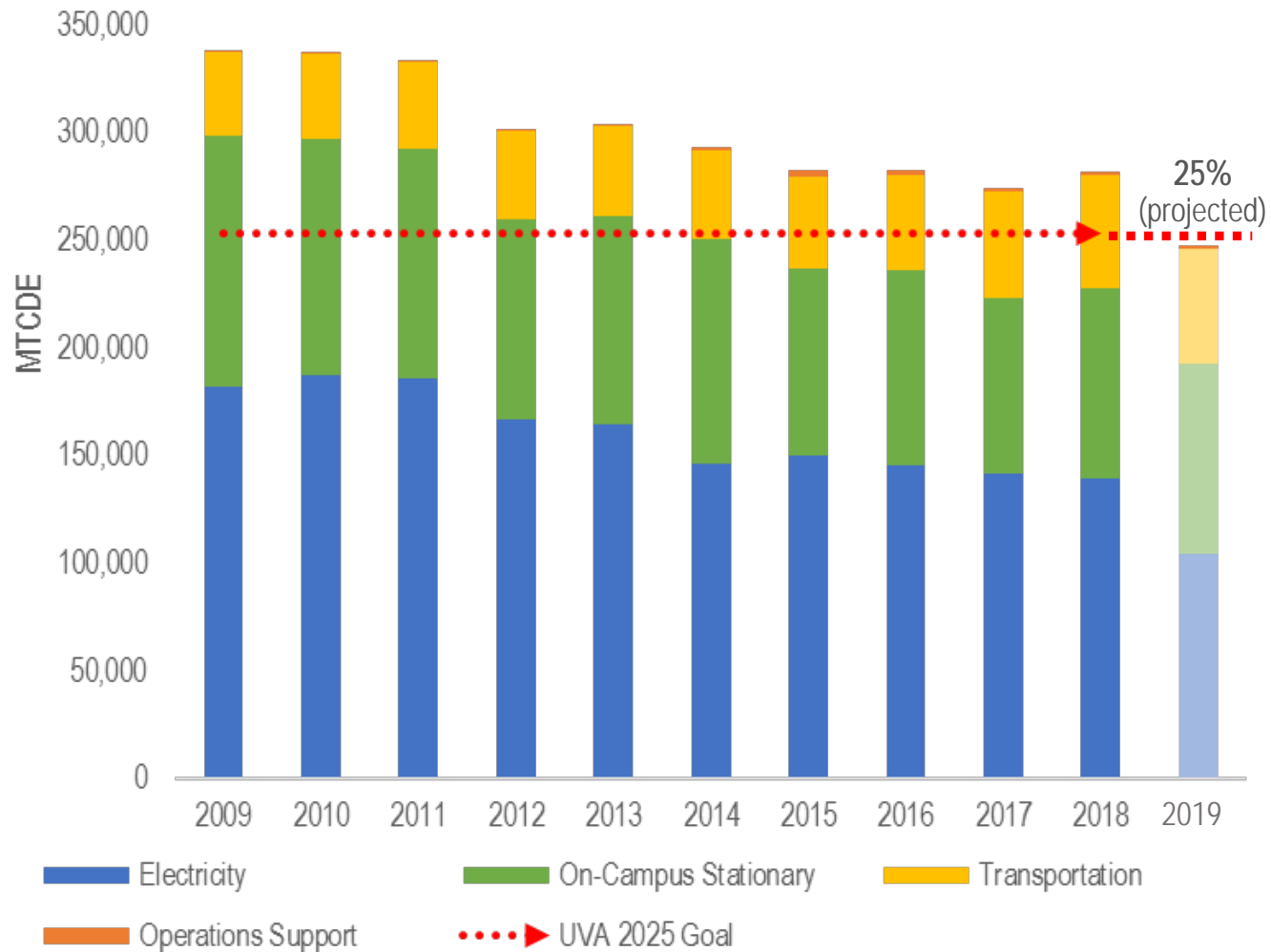
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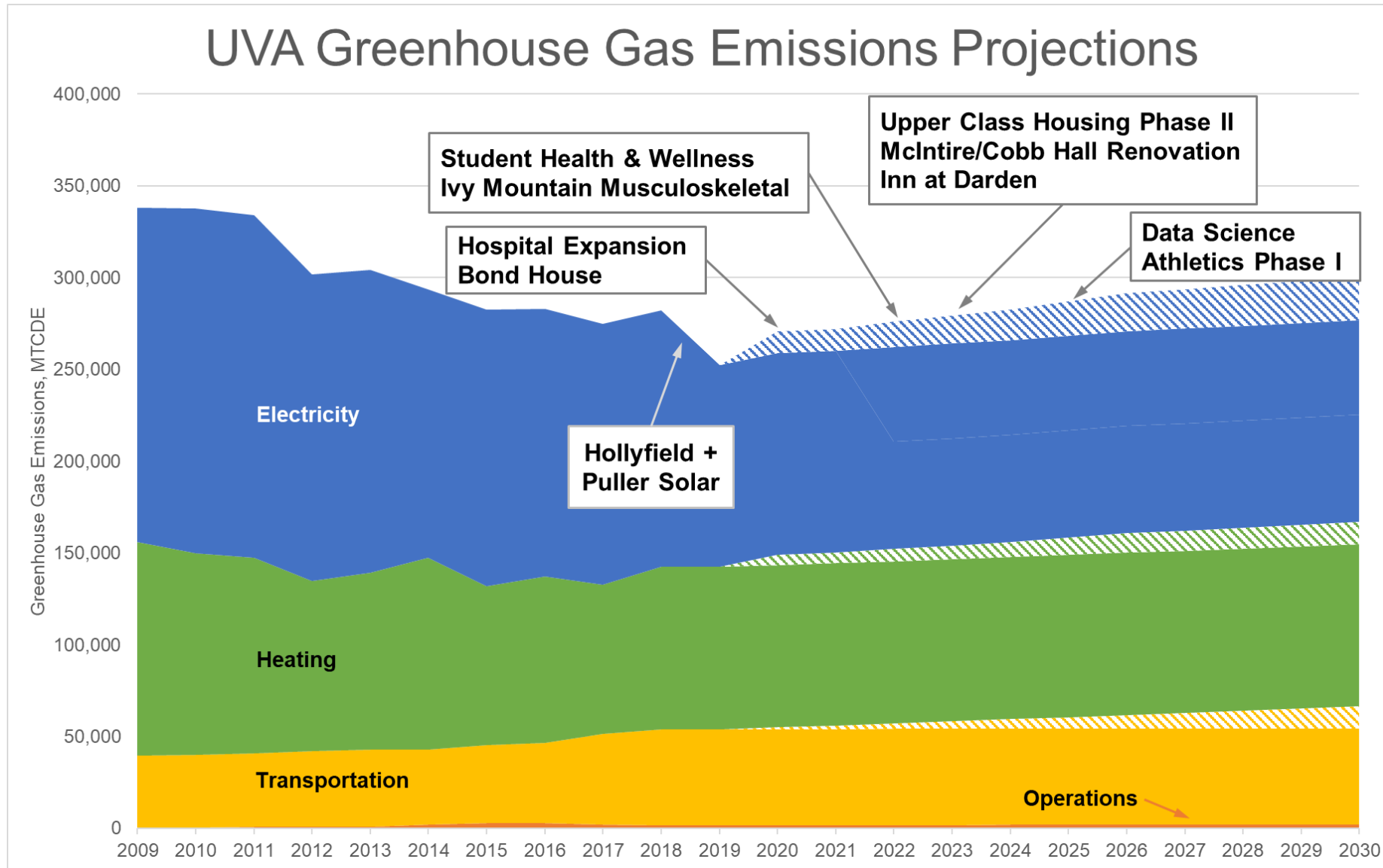


STEWARD - Living Our Values: Climate Action Strategies



- With the Hollyfield and Puller solar projects online throughout 2019 (~32,000 reduction in MTCDE [metric tons of carbon dioxide equivalent]), UVA expects to meet its 2025 goal six years ahead of schedule.

STEWARD - Living Our Values: Climate Action Strategies

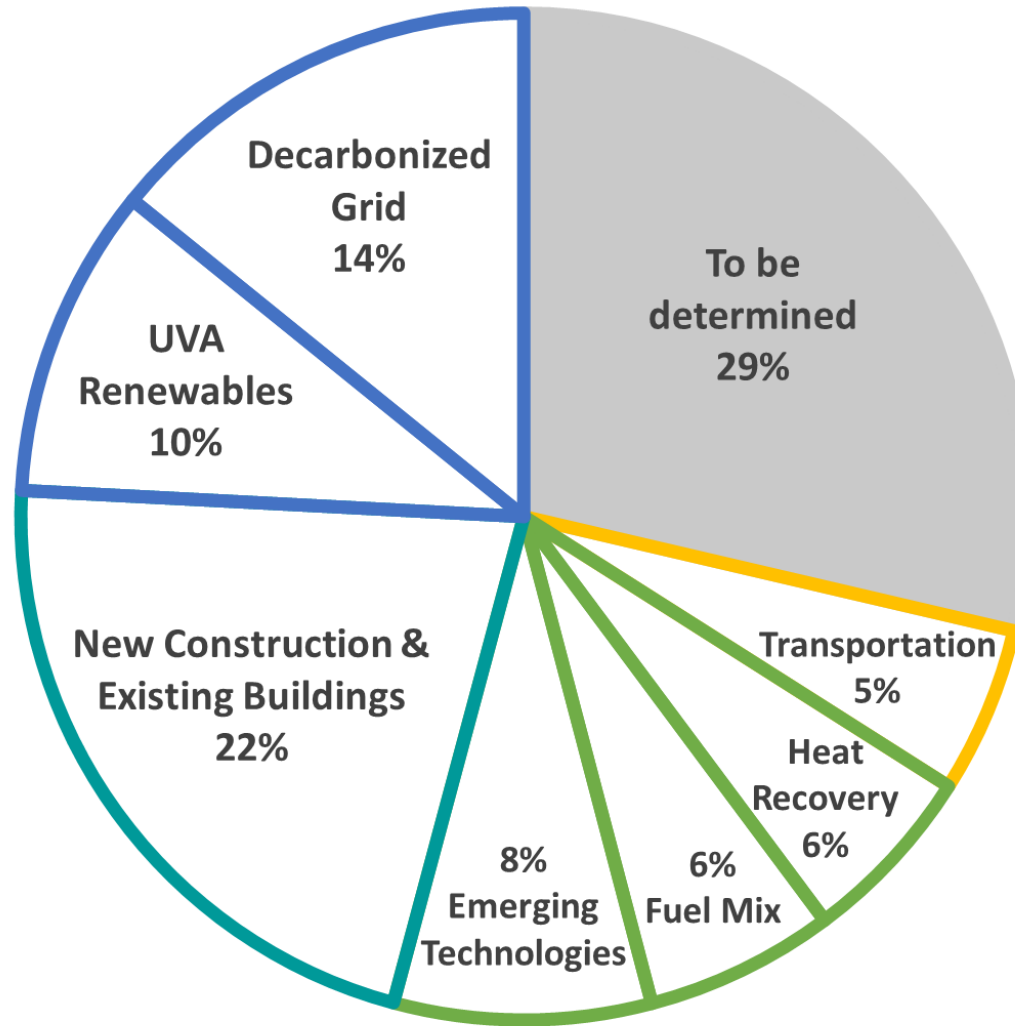


STEWARD

Living Our Values: Climate Action Major Priorities and Initiatives

- Catalyze the development of new initiatives through seed funding across Steward, Engage, Discover areas
- Achieve carbon neutrality and move towards fossil fuel free; **capital investments include:**
 - Address **heat plant fuel** infrastructure
 - Replace steam infrastructure in Health System with **heat recovery technology**
 - Establish more **aggressive energy performance** standards: **net zero** for capital construction
 - Increase the use of **renewable electricity** to 100%
 - Advance a **sustainable transportation plan**

2030 Emissions Reduction Strategies



STEWARD

Living Our Values: FM Fleet Sustainability Leadership



First university fleet in Virginia accredited by the National Association of Fleet Administrators (NAFA) and Calstart as a Sustainable Fleet

- ✓ 16 vehicles replaced with **alternative fuel vehicles**
- ✓ **Fuel use** reduced by 5,700 gallons and carbon emissions by 54 MTCDE
- ✓ **Telematics** implemented to improve utilization efficiency & reduce idling
- ✓ 8 Level-2 **electric vehicle charging stations** installed

STEWARD

Living Our Values: Transportation Strategic Planning – Electric Buses



- Implement UVA Parking & Transportation Plan
- Partner with regional public transit providers to enhance regional access to UVA
- Continue to explore the use of alternative fuels including electric for buses and fleet vehicles
- Expand multi-modal infrastructure that encourages and supports pedestrian and bicycle friendly alternatives

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STEWARD

Living Our Values: “30 by 30” Major Priorities and Initiatives



NITROGEN

- Implement climate action plan
- Increase plant-forward meals
- Switch to sustainable meat
- Reduce food waste

FOOD

- Increase access to community-based producers
- Increase sourcing of local food
- Increase plant-forward meals

STEWARD

Living Our Values: “30 by 30” Major Priorities and Initiatives



WASTE

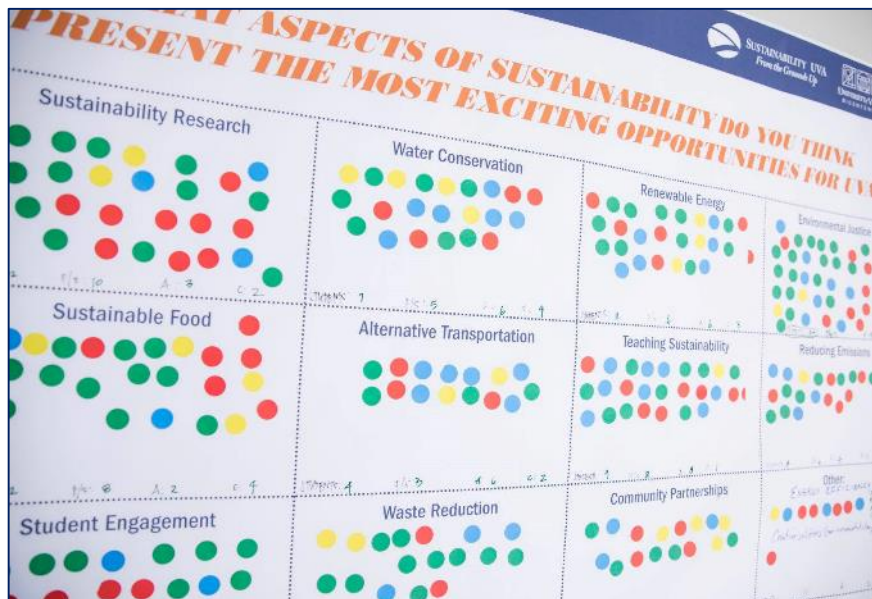
- Expand interior and exterior bin co-location
- Expand zero waste events and composting
- Commit to eliminating single-use plastics
- Provide additional training and outreach

WATER

- Increase chilled water plant efficiency
- Grounds-wide water fixture upgrades
- Increase outreach for behavior change

STEWARD

Living Our Values: Accountability



- Incorporate environmental, economic and equity considerations in **decision-making**
- Build accountability for achieving sustainability goals at **every level of the University**
- Develop **school and unit-level action plans**, aligned with the UVA 2030 strategic plan and the UVA 2020-2030 Sustainability Plan

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ENGAGE

Living Our Values: Serving our Community



MAJOR PRIORITIES AND INITIATIVES (2020-2030)

- Partner with our community on **regional sustainability planning and climate action, including transportation planning**
- Increase sustainability awareness and action through **outreach programs** such as Green Workplace, Green Labs, Green Living
- Provide opportunities for **collaborative learning** – events and training
- Work with schools and units on **school/unit-specific initiatives**
- Collaborate regionally and across higher education to **expand replicable models**

DISCUSSION



Remarks by the Senior Vice President for Operations



Review of cost of major capital projects

- Primary goals:

- Evaluate the total cost (i.e., project cost) of various types of major capital projects at UVA
- Identify primary factors that contribute to project cost at UVA compared to peer institutions and similar organizations
- Develop recommendations to address factors that influence the cost of capital projects at UVA, including advantages and disadvantages of alternative approaches

- Project timeline:



* Tentative pending negotiations with final firm(s)

Review of cost of major capital projects

Scope of work

- Examine completed major capital projects and projects under construction to assess factors that influence the cost of capital projects including, but not limited to:
 - Relevant University and state policies and/or procedures
 - Design guidelines and requirements associated with a project
 - Construction procurement methods
 - Direct and indirect costs included in total project costs
- Conduct interviews with:
 - Members of the Board of Visitors
 - UVA executive leadership
 - Project sponsors and others involved in capital process
 - External architects and contractors that have worked on UVA projects

