

2019 CFAES FACILITY MASTER PLAN CHARTER

Physical facilities play a vital role in allowing the College of Food, Agricultural, and Environmental Sciences (CFAES) to carry out its teaching, research, and outreach missions throughout Ohio. The 2019 CFAES Facility Master Plan will articulate CFAES's strategic vision for capital facility investments for the immediate and distant future.

2019 CFAES FACILITY MASTER PLAN

The master plan will recommend a strategic, flexible road map for future facility capital investment priorities. It will guide CFAES leadership decisions on capital improvements, and it will serve as a communication tool during stakeholder engagement. It must also consider how CFAES is viewed by nontraditional stakeholders who may not be familiar with the college or its programs.

This plan will explore the next fifteen years of capital improvements across the college, and fifty years at Waterman and the CFAES Animal Facilities. Planning and placement of facilities should promote opportunities for collaboration and efficiencies. It will recommend improvements and/or replacement of physical infrastructure and transportation routes (Civic, Civil, MEP, etc.) and technology. CFAES data and utilization analysis will drive recommendations for animal facilities, controlled environments, research labs, classrooms, meeting space, video-conferencing space, event space, retail operations, housing, land use, and space. Facility diagrams will consider placement of front-of-house and back-of-house facilities and activities.

CONSULTING SERVICES REQUESTED

A highly qualified, interdisciplinary team will assemble a world class plan.

Many CFAES programs are housed in facilities that require specialty niche designs to meet industry-specific best practices. Specialty consultation is required for the planning of facilities and grounds on various combinations of traditional and nontraditional campus landscapes.

- Expert Agricultural Engineering recommendations will establish bio secure design concepts with consideration of human transportation and access, juxtaposition of plants and animals, waste handling, secure transportation, prevention of contamination, planning of field irrigation and drainage, university housing, and food and retail consultation.
- The master plan will recommend retail operations at Waterman and the CFAES Wooster Campus. Specialty consultation is necessary to conduct need-based customer surveys and to provide recommendations for optimal placement and logistics associated with retail operations.
- Cost estimates and milestone schedules should be performed by a consultant familiar with classroom and office facilities, research space, controlled environments, animal facilities, farm operations, and a combination of traditional and agricultural landscapes. Cost should reflect logical project sequences and anticipate funding timelines. Cost will include fully-furnished, fully-equipped, turn-key projects. OSU Facility Design and Construction estimates will include escalation reflective of anticipated construction funding timelines.

CFAES requests recommendations for nontraditional funding sources. Recommendations should specifically include but not be limited to potential grants, public-private-partnerships, and smart cities.



DELIVERABLES

CFAES requests ten bound physical copies as well as electronic files of the final report. The report needs to include an Executive Summary, Recommendations Broken out by Phase, and a separate volume to include Appendices, Utilizations Studies, Cost Estimates, Data, Meeting Minutes, etc. Detailed Facility Studies should include colorful renderings and space diagrams.

Visual display tools should identify and articulate the sequential placement of physical improvements over time. Include reproducible materials and electronic images for CFAES planning, marketing, and advancement opportunities. Deliverables should align with OSU's Capital Improvement Planning (CIP) process as well as any recommended grant applications.

COMMUNICATION

Primary CFAES contacts will be the Associate Dean for Operations and the Director of Facilities and Capital Planning. Secondary contacts will include a CFAES leadership matrix of persons responsible for college-wide and/or location-based duties. Varying levels of conversations are required with the Dean, CFAES leadership, CFAES faculty and staff, students, CFAES stakeholders, public, and other OSU colleges and departments. Forms of communication include a combination of one-on-one conversations, team meetings, facilitated discussions, presentations, and surveys. CFAES specifically requests but does not limit participation to the following university associates.

- College of Veterinary Medicine – Collaborative Opportunities Around Animal Facilities
- Comprehensive Energy Management - All Master Planning Phases
- Student Life – Retail, Dining, and Residence
- CampusParc – Parking in Columbus
- Public Transportation Authorities - Transportation in Columbus
- College of Engineering – Collaborative Opportunities with CFAES Facilities Including but not Limited to Don Scott Field
- College of Medicine
- Facility Design and Construction – Validation of Construction Estimates

CURRENT STATE

CFAES has initiated and/or completed over \$100 Million in facility investments since completing the 2014 CFAES Facility Master Plan. External consultants have completed a detailed assessment of several facilities on the CFAES Wooster Campus. OSU has updated its framework plan. CFAES has filled several senior leadership positions including the new Vice President and Dean. CFAES has conducted multiple internal visioning exercises that will guide the 2019 CFAES Facility Master Plan. Visioning documents include but are not limited to the following:

- 2014 CFAES Facility Master Plan
- 2019 CFAES Facility Master Plan Charter
- 2018 Future of Waterman Task Force Report (near completion)
- 2018 Multispecies Livestock Learning Center Charter (near completion)
- 2018 CFAES Animal Facility Report (near completion)
- 2018 CFAES Wooster Campus Walking and Bike Paths
- 2018 CFAES Wooster Campus Strategic Plan (in progress)
- 2018 Stone Lab Master Plan
- OSU Framework 2.0
- OSU Facility Index Reports

SCHEDULE

The process will kick-off in 2018 and complete no later than spring 2019. CFAES recommends a phased, prioritized approach broken down by functional geographical operating areas as indicated below and requests the opportunity to pause and/or modify phases as master planning efforts progress. Some phases may start simultaneously and/or overlap. The master plan will pull all phases together into one cohesive report.

- Phase-I: Waterman and CFAES Animal Facilities
- Phase-II: CFAES Wooster Campus
- Phase-III: CFAES Columbus Campus
- Phase-IV: CFAES Statewide Campus
- Phase-V: Detailed Facility Studies

PHASE-I: WATERMAN AND CFAES ANIMAL FACILITIES

The Waterman Agricultural and Natural Resources Laboratory (Waterman) is a top priority for CFAES. It is a unique asset where emphasis is placed on learning by doing. Waterman expands the classroom from four walls to the entire outdoors and allows the university to engage at a small scale in addressing many of the challenges facing the world today.

Waterman poses a unique master planning opportunity to provide recommendations on a relatively blank slate that can be developed and expanded over the next fifty years and support programming with a diverse array of stakeholders. Waterman is positioned to serve as a premier hub for teaching, research, and community engagement around the grand challenges that are a focus for CFAES. Waterman will also serve as a center to help inform and educate a broader audience. The draft vision for Waterman emerging out of planning work is...

- *Waterman, a specialized green oasis in an urban landscape, is a **showcase** and a **hub of experiential learning** and **innovative discovery** in the areas of **food, agricultural, and environmental sciences**, where people **build community** and **connect to trusted information**.*
- **The future of Waterman will include:**
 - *expanded opportunities for Ohio State students to engage in hands-on learning, thus preparing the future workforce.*
 - *displaying cutting-edge research around food, health, agricultural production, and sustainability.*
 - *more public engagement in agricultural and environmental education, broadly defined.*
 - *(More detail is available in the forthcoming 2018 Future of Waterman Task Force Report)*

The master plan must pose new and improved transportation and flow to and through Waterman. Intuitive, informative wayfinding must promote public visitation and access throughout the site. Welcoming messages must guide visitors to and through the site, while steering them clear of back-of-house activities. The master plan must pose convenient and effective options for transporting CFAES students, staff, and faculty from the Midwest campus; general public/stakeholders; and animals from other CFAES Animal Facilities. The master plan will pose stronger collaborative connections between Waterman, Chadwick Arboretum and Learning Gardens, and The Wilma H. Schiermeier Olentangy River Wetland Research Park. At the same time, transportation to and through Waterman must be planned in a way that does not introduce parking or other features that take away space from focused mission programs. Concepts for transportation should coordinate with The City of Columbus's Smart City program.

Current and upcoming Waterman facility projects will have immediate and long lasting effects on statewide CFAES Animal Facilities. Waterman and CFAES Animal Facilities must be planned together through the master plan. Many existing facilities at Waterman and statewide animal facilities were sited based on varying 5-year visions. Many are beyond their fifty percent life expectancy and may even no longer exist in thirty years. Some are planned to be relocated, while others will be sold by the university along with property they occupy. The master plan will identify which facilities remain, which will be relocated, and which will not be replaced. The first of three upcoming capital projects totaling over \$55 million is under construction. This facility will establish a new front door to Waterman.

New physical development requires expertise in civil engineering, civic infrastructure, and environmental conservation to provide proper public transportation, logistics, roads, sidewalks, bridges, sanitary, storm, stream management, and utilities. This master plan must look past the expected life of existing facilities and explore new development opportunities over the next fifty years.

PHASE-II: CFAES WOOSTER CAMPUS

Additional detail is forthcoming.

PHASE-III: CFAES COLUMBUS CAMPUS

Additional detail is forthcoming.

PHASE-IV: CFAES STATEWIDE CAMPUS

CFAES's Statewide campus generally refers to CFAES's physical footprint outside of the Wooster and Columbus campuses, but is not limited to Area Research Stations, OSU South Centers, Molly Caren Ag Center, Stone Lab, OSU Extension facilities, including managed and non-managed land areas.

Additional detail is forthcoming.

PHASE-V: DETAILED FACILITY STUDIES

The 2019 CFAES Facility Master Plan will include two detailed facilities studies that will articulate CFAES' next major capital improvement priorities, one at the CFAES Columbus campus, and one at the CFAES Wooster campus. Projects will be selected through the master planning process with approval from CFAES leadership. The studies must be grounded in data and input and clearly focused to articulate scope for simple interpretation.

Studies will include complete university project cost estimates from OSU Facility Design and Construction (FDC). They must include enough information and justification required by the university's Capital Improvement Planning (CIP) approval process.