

WATERMAN INFRASTRUCTURE FEASIBILITY STUDY CHARTER - APRIL 26, 2021

SUMMARY

CFAES has requested a Waterman Infrastructure Feasibility Study that includes several scopes of work under one comprehensive plan. The feasibility study will support and enable critical timing and coordination of projects to minimize disruptions to current and ongoing college programs and construction activities.

The university is currently finalizing CFAES's facility master plan. Master planning recommendations for Waterman will drive the feasibility study.

Waterman Projects Timeline

- CFAES Master Plan – Wrapping up April 2021 with Summer deliverables.
- Kunz-Brundige Franklin Co. Ext. Building (KBFCEB) – Complete and occupied 2019
- Engie Utility Improvements at Waterman – Anticipated 2021
- CEFPRC – Under construction. Anticipating 2022 completion
- Pesticide Facility – Finishing up design.
- Dairy renovation – 2021 Design
- Multispecies Animal Learning Center (MALC) – Early design. Possible 2022 construction
- Waterman Welcome Center – Initiating study
- Teaching, Research, Extension/Outreach, and Farm Operational Programs - Ongoing

SCOPE OF FEASIBILITY STUDY

1. Align the Kenny-Carmack-Hess intersection at Kenny Road and propose signals.

- This location will be the new main entry point to Waterman.
- Kenny-Carmack-Hess intersection alignment is a critical component to Waterman logistics, traffic, site access, and coordination with other infrastructure projects.
- Validate intersection alignment and traffic light with City of Columbus requirements.
- Coordinate city and EPA requirements.
- Coordination with existing city streets.
- Include recommendations for minimizing disruptions to general site access, programs, and construction projects.

2. Carmack Bridge

- Establish expected load capacity for expected heavy equipment and vehicle and pedestrian traffic.
- Coordinate with emergency vehicle requirements.
- Coordinate stream impact with City of Columbus and the EPA.



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3. Interior Roads

- Determine interior road widths and locations. (Possible 3 lane road to accommodate bidirectional traffic, roadside parking, and/or pedestrians).
- Provide scenarios for main traffic routes and service roads.
- Evaluate options and provide recommendations for efficiently turning vehicles around and maintaining traffic flow in and out of Waterman. (Could be a loop, circle, etc.)
- Provide recommended pavements sections with notes.
- Identify and recommend solution for storm water impact.
- Evaluate and provide recommendations for access control.
- Discuss road naming opportunities.

4. North Access from Kenny Road

- Evaluate need, safety, security etc. for potential access road.
- Cost estimates, pros/cons to reintroduce a northern access road from Kenny Rd.

5. Walking/Biking Path on Kenny Road (From Lane Ave. to Carmack Road Entrance)

- From corner of Kenny/Lane to KBFCEB.
- Identify location, width, setbacks, and cross section.
- Coordinate location with stream, waste site, roads, buildings, and infrastructure.
- Identify impact and plans to adjust grading, drainage, and surface.
- Recommendations for landscape, plantings, and fence details. (With input from Waterman Grounds Taskforce)
- Perimeter fencing along Kenny Rd. (from Lane Ave. to Ackerman Rd.)

6. Interior Pathways and Egress

- Identify location, width, and cross section.
- Coordinate locations with stream, waste site, roads, lots, buildings, and infrastructure.
- Establish intended views.
- Coordinate wayfinding, access control, and environmental impact.
- Interior fencing and gating needed to support central public access area and restricted access elsewhere.
- Possible interior pedestrian bridges.

7. Signage and Wayfinding

- Utilize experienced sign consultant to coordinate a signage map and concepts for: main entrance at Kenny-Carmack-Hess intersection, prominent identification at corner of Kenny-Lane intersection, entrance at Lane Avenue (likely primarily pedestrian), all site entries, building identification, directional signage, wayfinding for visitors, parking signage and information, interpretive communication and displays, and access control deterrents.

8. Stormwater Controls (Multiple Types)

- Order-of-magnitude cost for control structures noted in the master plan.
- Recommendations and evaluations of agricultural drainage mains and outlets.

9. Parking

- Paved parking lots may or may not be adjacent to buildings.
- Grass paver lots for overflow.
- Formal/semiformal parking adjacent to buildings.
- Roadside parking (part of “Interior Roads” scope)
- Recommendations of offsite parking not located at Waterman.

10. City Coordination

- Coordinate the Kenny-Carmack-Hess intersection requirements and possible turning lane.
- Coordinate items that impact the stream with the City of Columbus and the EPA.
- Permitting & ROWs associated with agricultural drainage.
- Establish details and setbacks for walking/biking paths. (Include underground and overhead utility coordination)
- Accommodate emergency vehicle access.

DELIVERABLES

Final Report and Recommendations

- 1–3-page executive summary.
- FDC Cost Estimates, broken down by project.
- Survey backup for roads, bridges, grading, and pathways.
- Facilitate the City of Columbus’s process for validating the Carmack-Kenny-Hess intersection alignment. Traffic study including but not limited to Carmack-Kenny-Hess Intersection: analysis and recommendations of signal warrants and associated improvements at Carmack-Kenny-Hess intersection, coordination and input with City of Columbus, utility coordination, etc.
- Carmack Road Recommendations: Sketches identifying future-state road location, widths, and cross sections.
- Sketch with notes recommending Carmack Bridge location width and loading requirements. (Backed up with city requirements for stream impact.)
- Sketch with notes recommending walking/biking paths.
- Signage pamphlet specific to Waterman indicating locations, types, and sample wording for site and building identification, wayfinding, access control, informative displays. Coordinated with OSU standards and from an approved signage consultant.

CFAES EXECUTIVE TEAM MEMBERS

- Brian Hanna, P.E. – Director of Facilities and Capital Planning (Point-of-Contact)
- Dr. Graham Cochran, Ph.D. – Associate Dean of Operations
- Dr. Dewey Mann, Ph.D. – Director of Waterman
- Chuck Gamble – Facilities Project Coordinator
- PARE/FDC Executive Members TBD