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CFAES WOOSTER TURF PROGRAM STUDY
Final Report
October 3, 2022

Executive Summary

This study provides siting and loose descriptions of new and relocated turf facilities on the CFAES Wooster Campus developed through consultation with faculty and operational staff. The study is informed by and builds upon the CFAES Wooster Master Plan completed in 2021. It establishes a flexible baseline for future turf teaching, research, and student life activities on the CFAES Wooster Campus. The features and amenities will support multiple programs and are not intended for public use. Recommended locations for each feature along with existing topography and underground utilities are shown on the plans that follow the narrative.

Existing Conditions

Water Resources and Management

Avoid programming areas with steep topography, poor drainage, or erosion issues. Any changes to the site must be designed in a way that does not negatively impact drainage

- Maintain drainage on the property away from the Turkey facility (south to north)
    - Keep existing swale and culvert
- Part of the existing storm water system is in poor condition. Consider upgrading this infrastructure when site improvements are made
- Ground or storm water should be used for irrigation purposes except for the Research Plots

Underground Utilities

Maintain integrity of existing electrical, storm water, sanitary, gas, low-voltage, and all other utilities

- Field verification of all utility locations is required prior to commencing on any site work

Biosecurity

Research at surrounding facilities must be protected

- Discourage unnecessary vehicular and foot traffic around the Turkey Research complex and the Selby Greenhouses

- Consider fencing to limit access to sensitive research areas that may experience increased traffic due to additional programming in the area
- The Selby Greenhouse is a Biosecurity Level 2 (BSL2) facility regulated by the USDA Animal and Plant Health Inspection Service (APHIS)
    - 300-yard buffer zone between greenhouses and research plots is ideal and required for corn crop research
    - Timing and protocols for all chemical applications to the golf course or other plantings within the buffer zone must be carefully coordinated between operations and researchers to reduce risk of contamination to specimens

Secrest Arboretum and Welcome Center

Program placement should complement and enhance the value of the Arboretum and Welcome Center to the University and the surrounding community

- Leverage available resources at Secrest to help support Turf Program needs
    - Welcome Center classrooms, restrooms, equipment storage, and parking
- Increase accessibility to Secrest for students, faculty, and staff
- Landscape Design student plots to be integrated into landscape features and gardens surrounding the Barnhart Rice House

Program Features and Amenities

Three-hole golf course

Support Turf Management student training, research, outreach/extension programs, and special events

- Par 3, 4, and 5 holes
- Sand-based greens w/ modern irrigation/ drainage
- One-two sand bunkers
- Low maintenance grasses and landscaping features
- Location should provide easy access for students
- Layout must assure safety of surrounding people and property
- Equipment needs: 2 new specialty riding mowers are needed to maintain the course.
    - Mowers to be stored in ATI's existing facility

Research plots

2 total acres of large, flat, rectangular areas dedicated to turf research separate from golf course

- ½ acre sand-based putting green
- ½ acre native soil fairway
- 1 acre plot comprised of 4-8 independently irrigated quadrants (sub quadrants)
    - Subsurface irrigation system connected to city water
- Full sun and consistent grade; 0% - 1% slope positioned to shed water

- Locate away from high traffic areas
- Install identification signage to protect plots from damage

Athletic pitch

Soccer/lacrosse field for student recreation and turf management education
Prioritize construction of this area to help integrate the campus

- Warm-season (Bermuda overseeded w/ P. rye) and cool-season (Kentucky bluegrass)
- Simple construction, perhaps sand-cap with subsurface irrigation
- Sideline player benches (no spectator seating)
- Field lights for night games
- Access to electrical power for a portable scoreboard and/or sound system
- Permanent soccer goal posts with detachable nets requiring little storage
- Proximity to parking, drinking water, and restrooms
- Installation of bike racks adjacent to the field is recommended

Connectivity

Road and pathway improvements are a priority identified in the 2021 CFAES Wooster Master Plan to improve connectivity and safety across campus

- Provide students with multimodal pathways to various program elements
  - Connect the academic core to the Secrest Welcome center and the Athletic Pitch
  - Provide connection from the overflow parking area to the Secrest Welcome Center
- Multimodal pathway construction to be 10’ wide and paved to support all modes of transportation
- Exterior lighting of multimodal pathways is highly recommended to increase safety
  - Lighting to be OSU standard fixture: Gardco Gullwing Black

Pavilions

Area destinations that will draw people in and support a variety of outdoor activities

- Open structure to provide cover for outdoor classes and recreation
- Function as a meeting point and a place to stash belongings
- Proximity to multimodal pathway
- Support a class size of 20-25 students

Overflow Parking

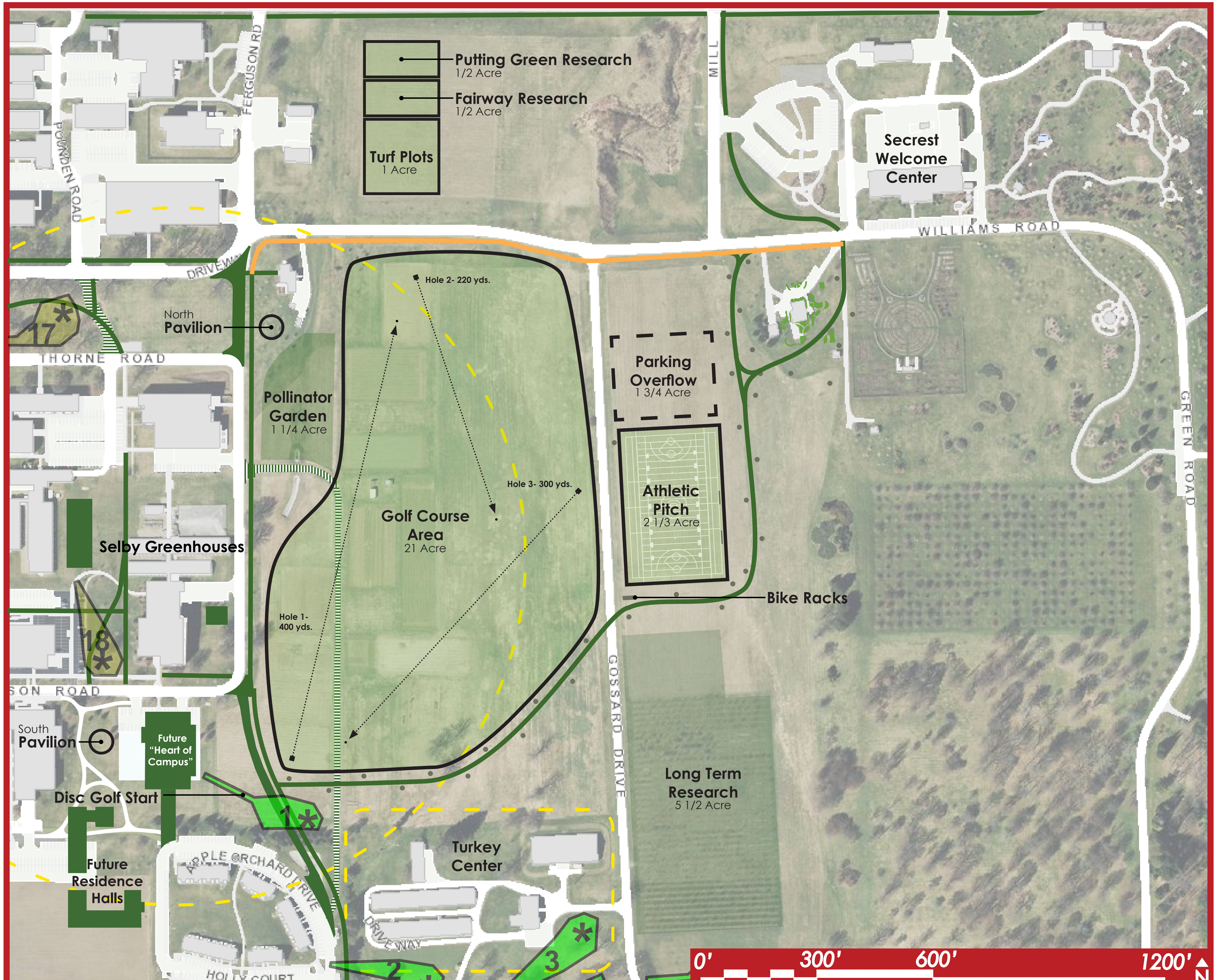
Temporary parking for large events

- Relatively level, open, grassy area with road access to accommodate approximately 50 vehicles
- Proximity to the Athletic Pitch and Secrest Welcome Center

WOOSTER TURF PROGRAM STUDY

FINAL DESIGN

10/3/2022



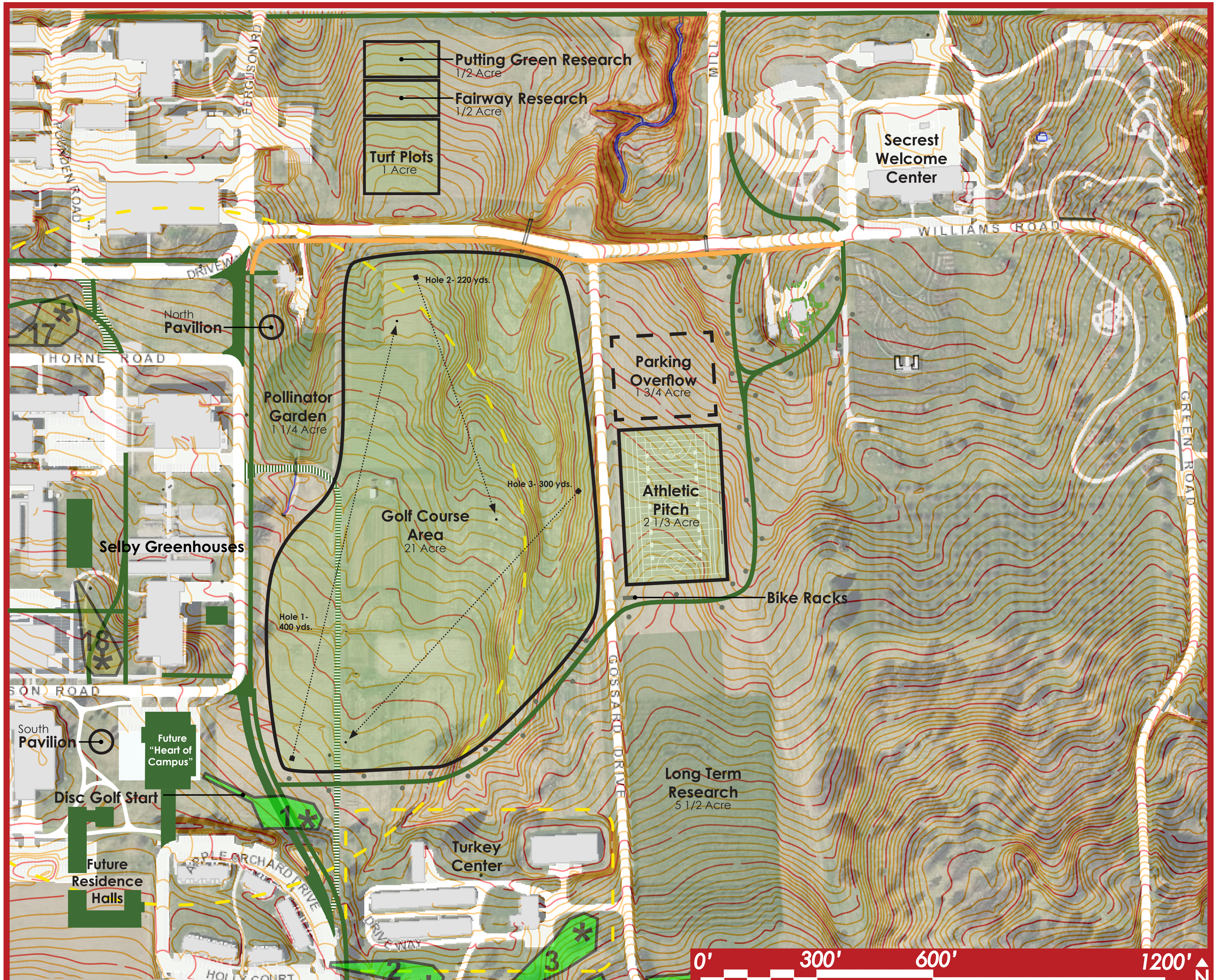
KEY

- Program area boundary
- Areas with biosecurity requirements
- Golf hole
- Disc golf course, existing
- Disc golf course, future
- Future building, road, or path identified in the CFAES Wooster Master Plan
- Road to be removed per the CFAES Wooster Master Plan
- Multimodal path extension

WOOSTER TURF PROGRAM STUDY

FINAL DESIGN WITH CONTOURS

10/3/2022



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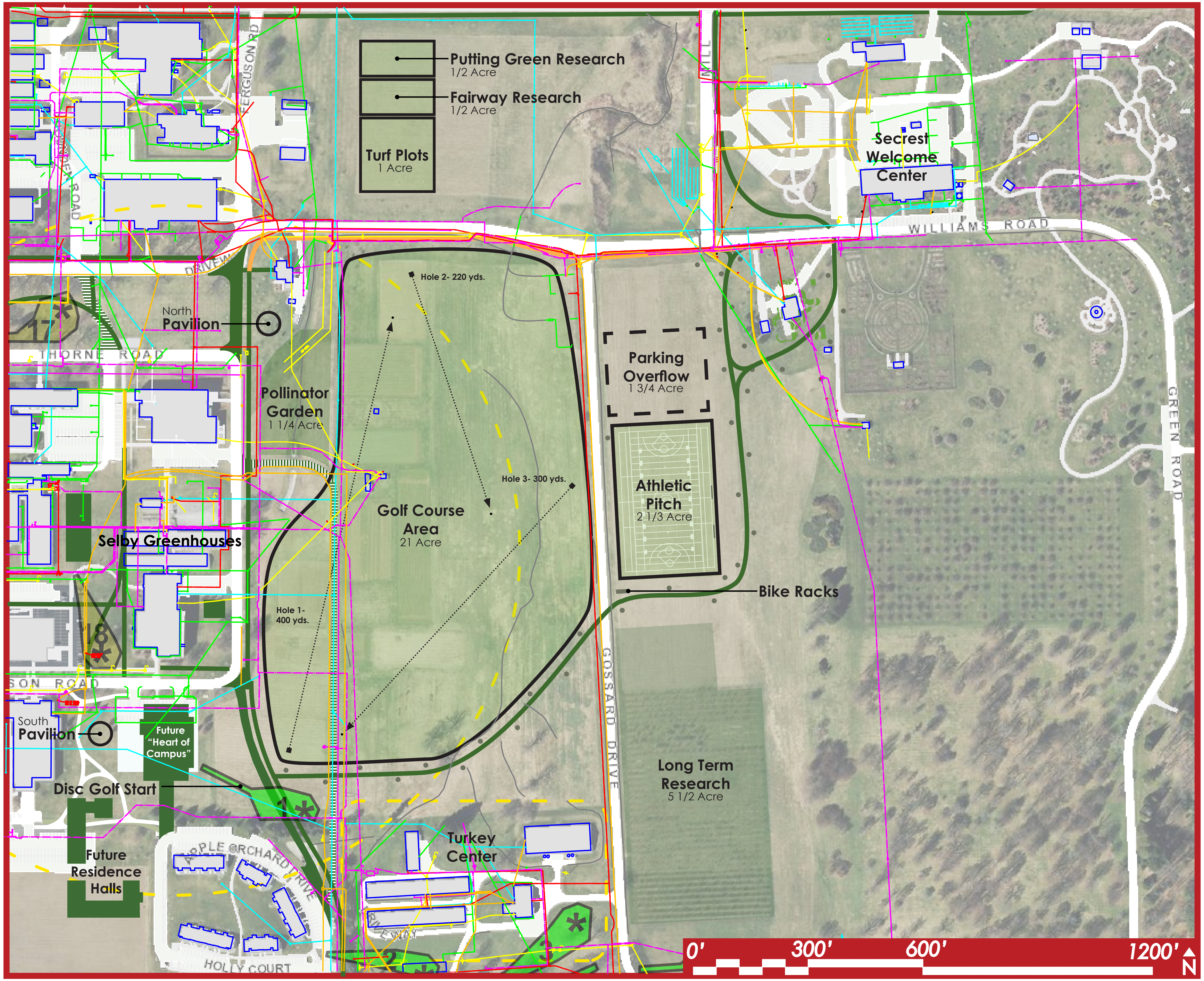
WOOSTER TURF PROGRAM STUDY

FINAL DESIGN WITH UTILITIES

10/3/2022



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- Storm Sewer
- Sanitary Sewer
- Electric
- Water
- Gas
- Telephone