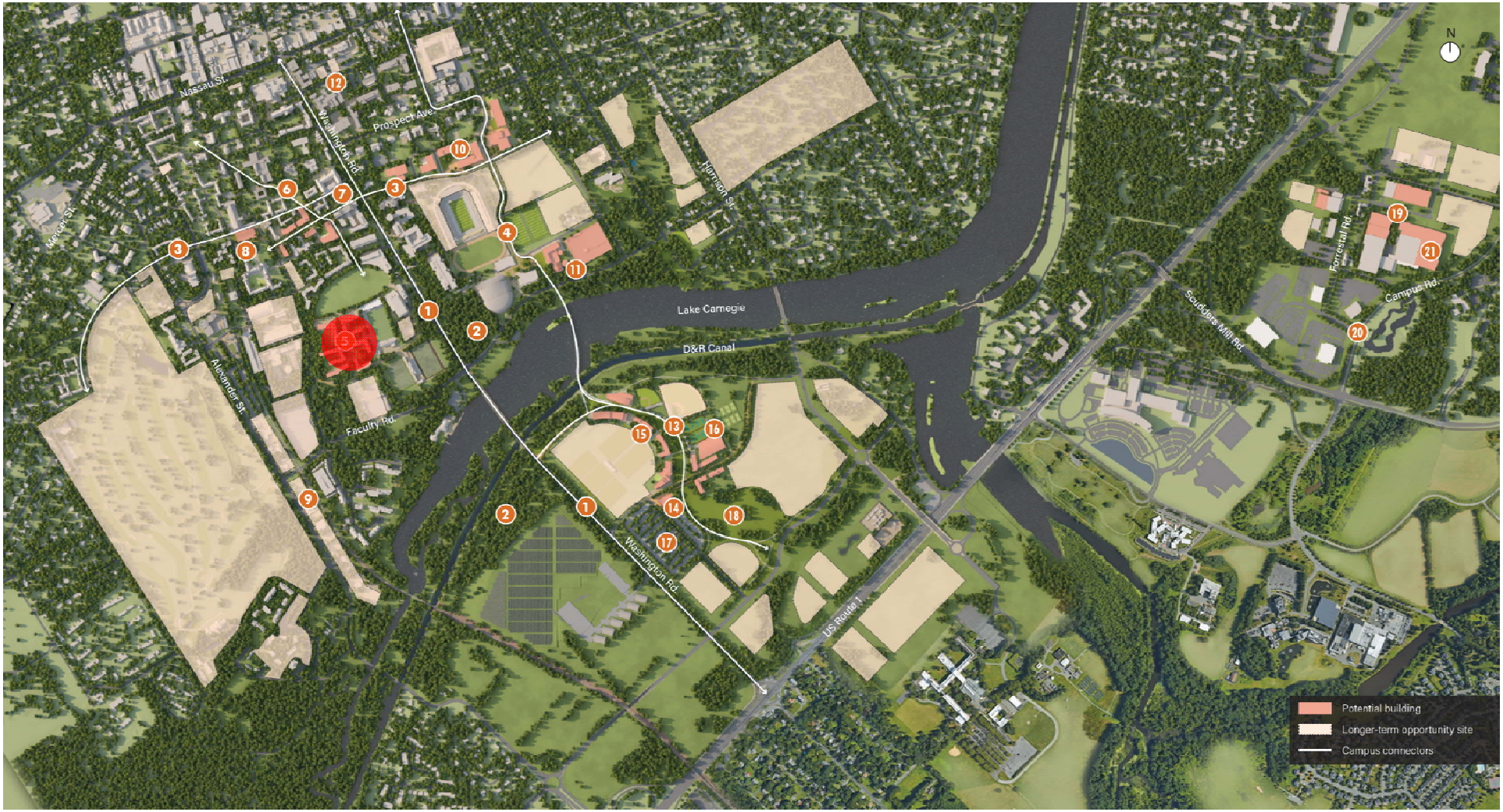
Princeton University
New Residential Colleges

Princeton Planning Board
Concept Presentation
February 21, 2019

DEBORAH BERKE PARTNERS

JAMES CORNER FIELD OPERATIONS

https://campusplan.princeton.edu



The 2026 Campus Plan proposes locations for priority projects identified in the 2016 strategic planning framework.

- **A new residential college or colleges to permit expansion of the undergraduate student body by 10 percent.**
- **New and improved facilities to support teaching and research in engineering and environmental studies.**
- **Space to accommodate academic collaborations with corporate, government and nonprofit sectors in an expanded innovation ecosystem.**

Residential College Value Proposition

A closely knit, collaborative community of living, learning, socializing, and dining.

Each of these spheres enhances one another:

- The dining hall offers a place to exchange ideas.
- Dorm rooms become places of intellectual and social encounter.
- The college might house spaces of creativity and serendipitous collision.

Residential Colleges should be designed and built to:

- Enhance student well-being: Consist of highly functional, appealing, and inviting spaces that enhance student well-being.
- Integrate learning and living: Produce innovative, seamless, and flexible integration of curricular and co-curricular learning with living and dining experiences.
- Foster community and responsibility: Configurations of rooms and shared spaces aid in community building, maturation, and growing responsibility and independence.

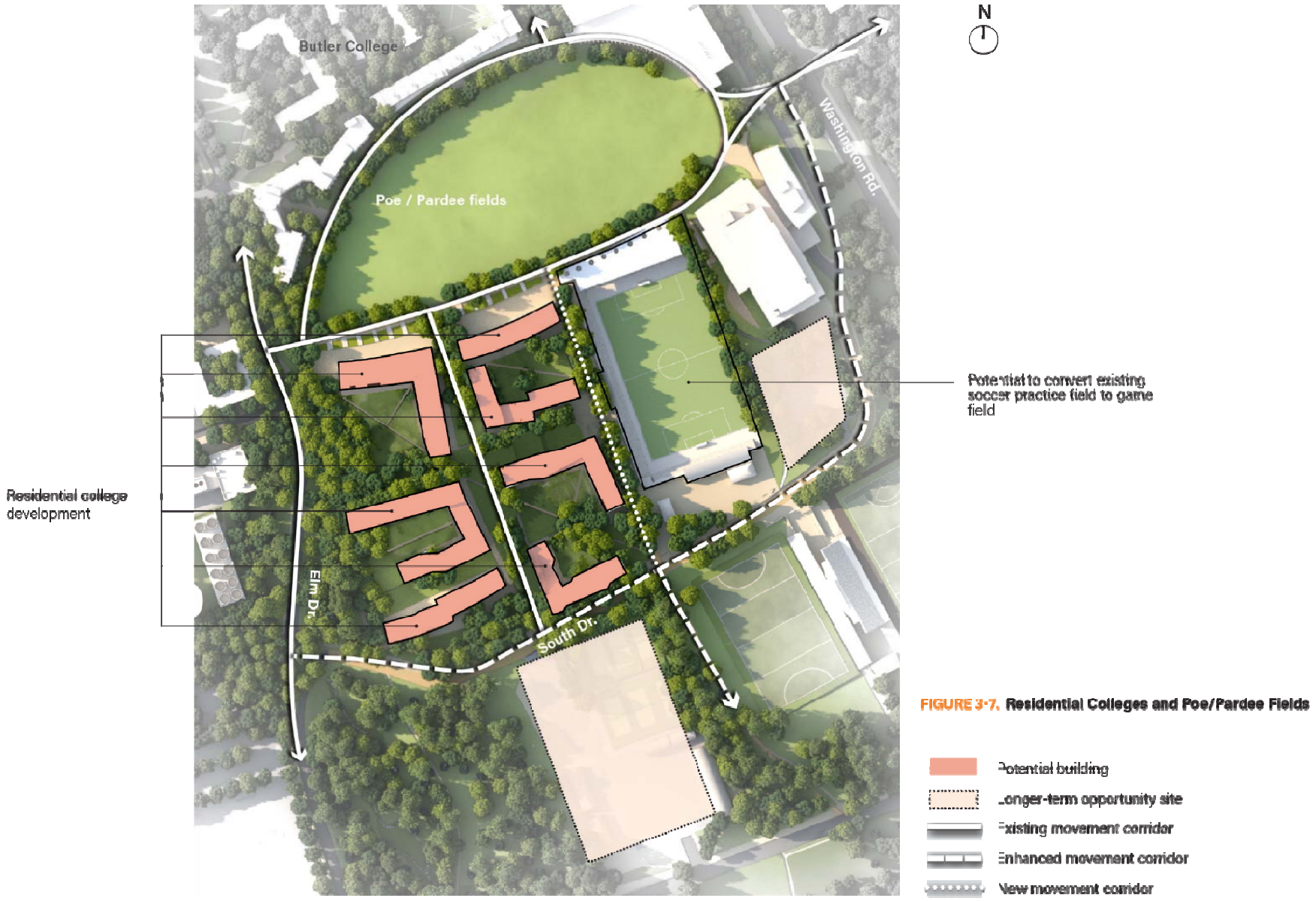


FIGURE 3-7. Residential Colleges and Poe/Pardee Fields


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FIGURE 3-21. **Athletics**

Near-Term Planning Strategy

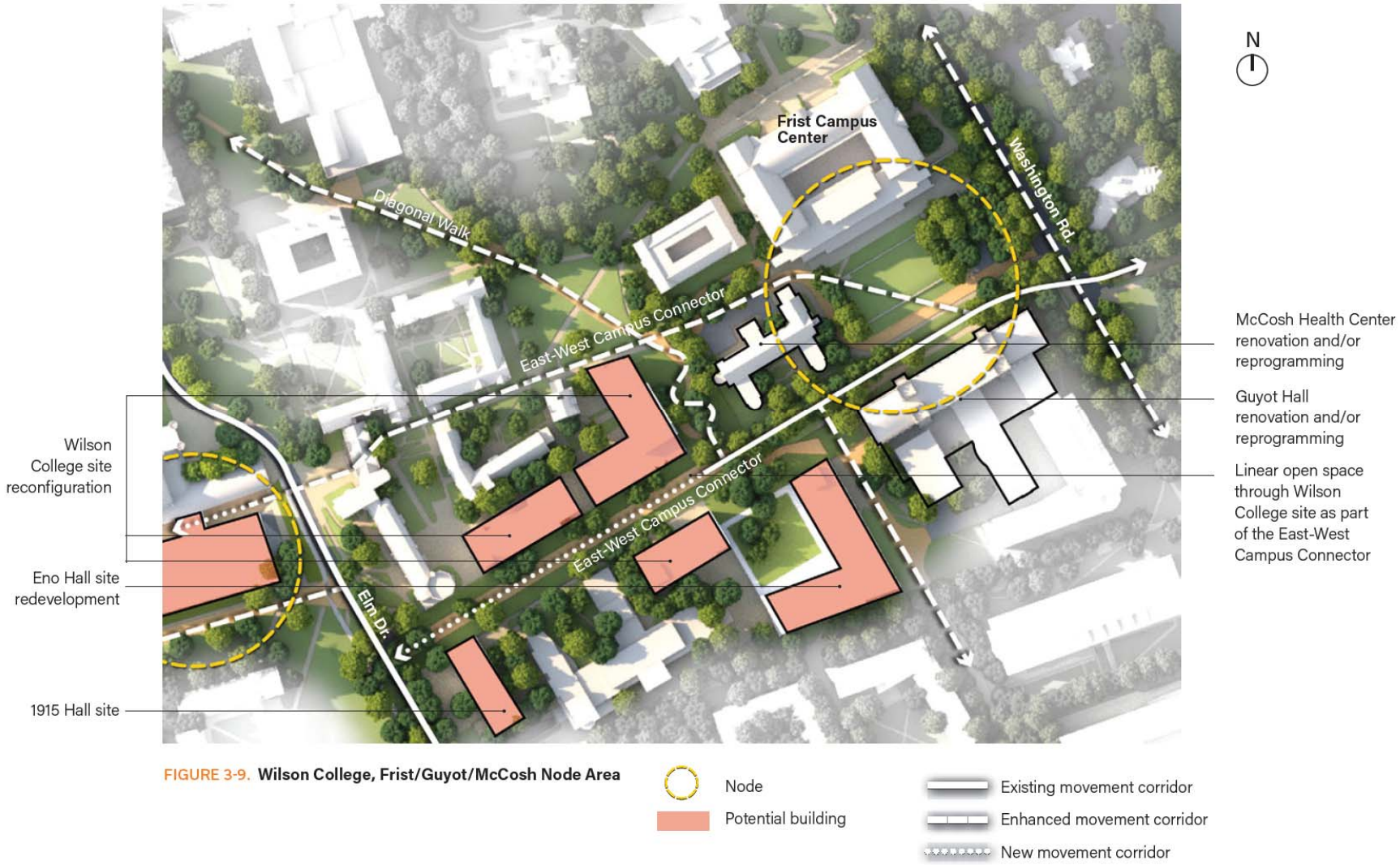

FIGURE 3-9. **Wilson College, Frist/Guyot/McCosh Node Area**

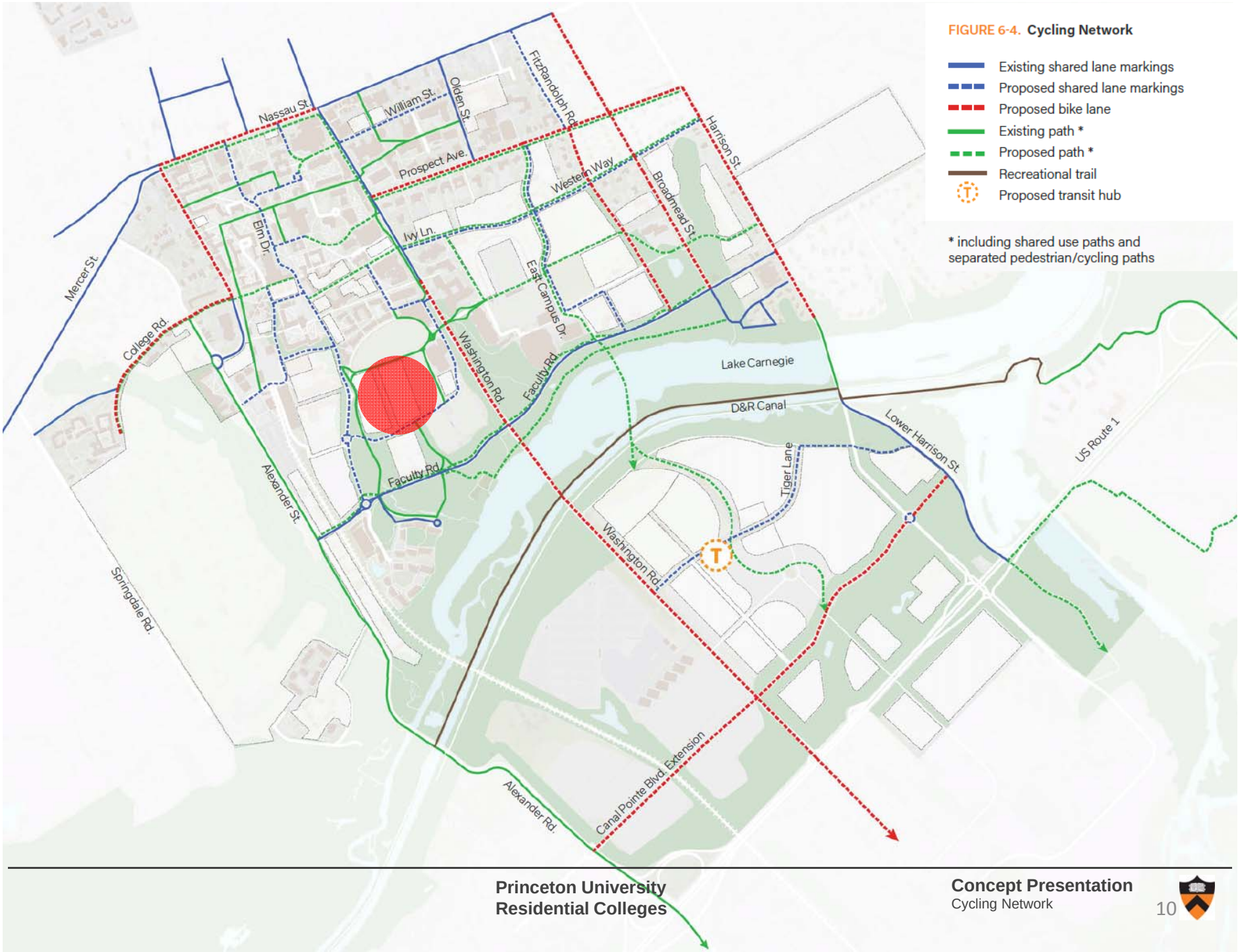
FIGURE 6-4. Cycling Network
Existing shared lane markings
Proposed shared lane markings
Proposed bike lane
Existing path *
Proposed path *
Recreational trail
Proposed transit hub
* including shared use paths and separated pedestrian/cycling paths
Nassau St.
William St.
Olden St.
FitzRandolph Rd.
Harrison St.
Prospect Ave.
Western Way
Broadmead St.
Ivy Ln.
Elm Dr.
Mercer St.
College Rd.
East Campus Dr.
Washington Rd.
Faculty Rd.
Lake Carnegie
D&R Canal
Lower Harrison St
US Route 1
Tiger Lane
Alexander St.
Springdale Rd.
Canal Pointe Blvd. Extension
Alexander Rd.


FIGURE 7-2. Natural Landscapes
Existing landscapes with natural character
Proposed and restored landscapes with natural character
Landscapes that are regulated and to be preserved
Nassau St.
William St.
Olden St.
Prospect Ave.
Western Way
Ivy Ln.
Elm Dr.
Mercer St.
College Rd.
Washington Rd.
Broadmead St.
FitzRandolph Rd.
Harrison St.
Faculty Rd.
Lake Carnegie
D&R Canal
Lower Harrison St.
US Route 1
Alexander St.
Springdale Rd.
Tiger Lane
Alexander Rd.

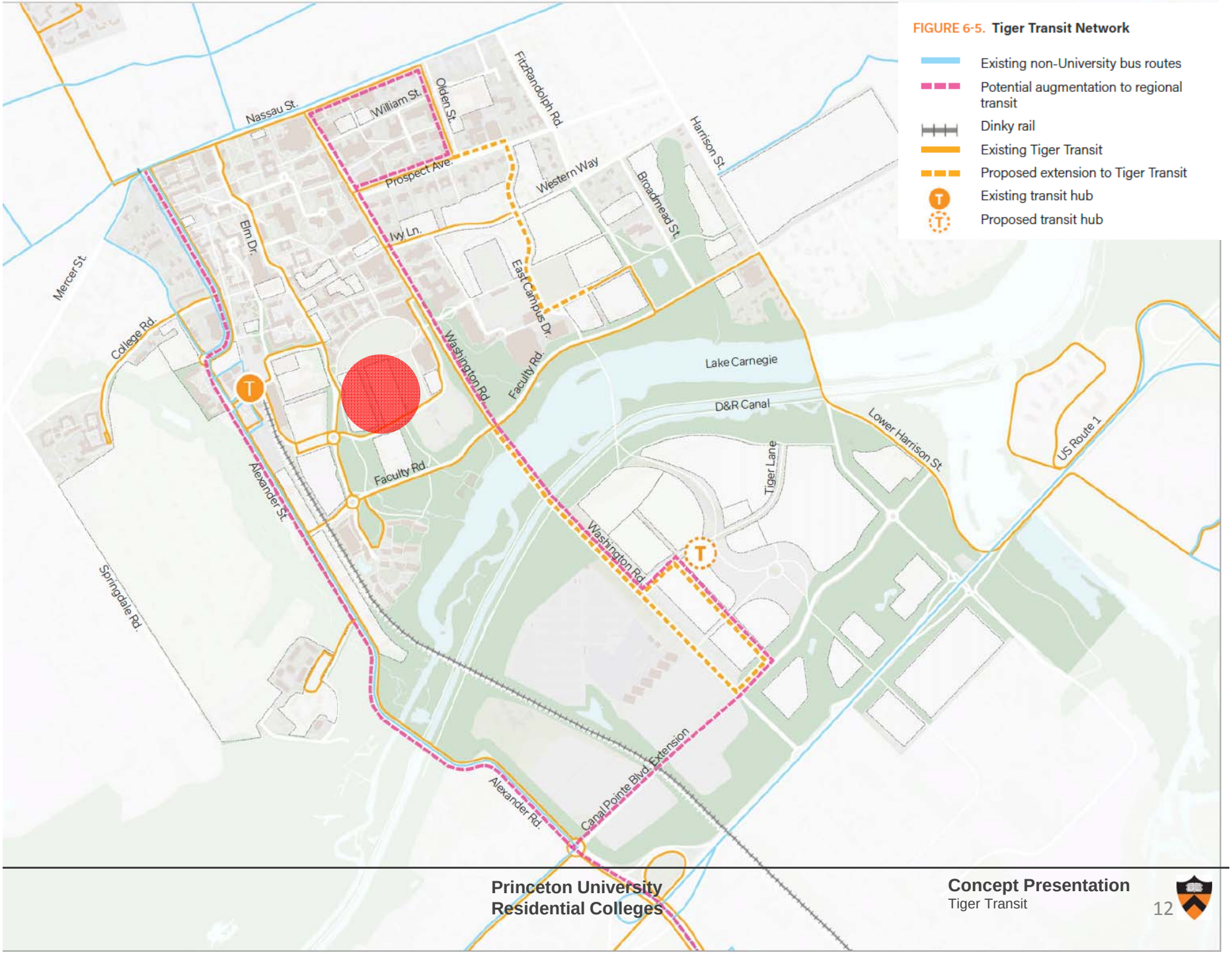
FIGURE 6-5. Tiger Transit Network
Existing non-University bus routes
Potential augmentation to regional transit
Dinky rail
Existing Tiger Transit
Proposed extension to Tiger Transit
Existing transit hub
Proposed transit hub
Nassau St.
William St.
Olden St.
FitzRandolph Rd.
Harrison St.
Prospect Ave.
Western Way
Broadmead St.
Ivy Ln.
Elm Dr.
Mercer St.
College Rd.
East Campus Dr.
Washington Rd.
Faculty Rd.
Lake Carnegie
D&R Canal
Lower Harrison St.
US Route 1
Tiger Lane
Alexander St.
Springdale Rd.
Canal Pointe Blvd. Extension
Alexander Rd.


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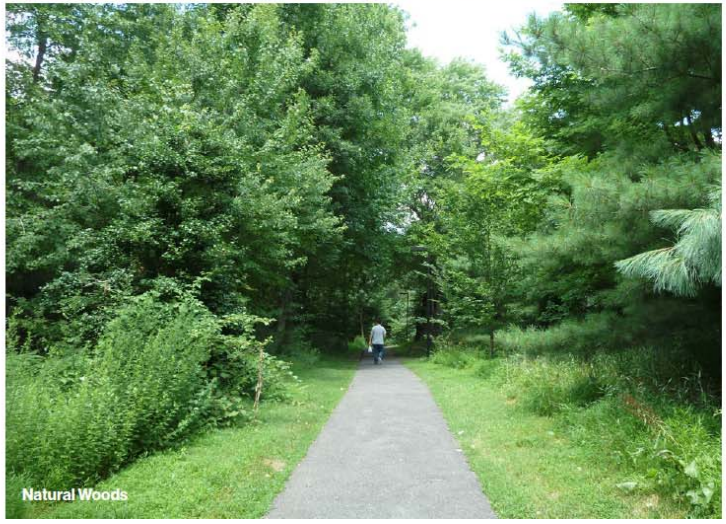
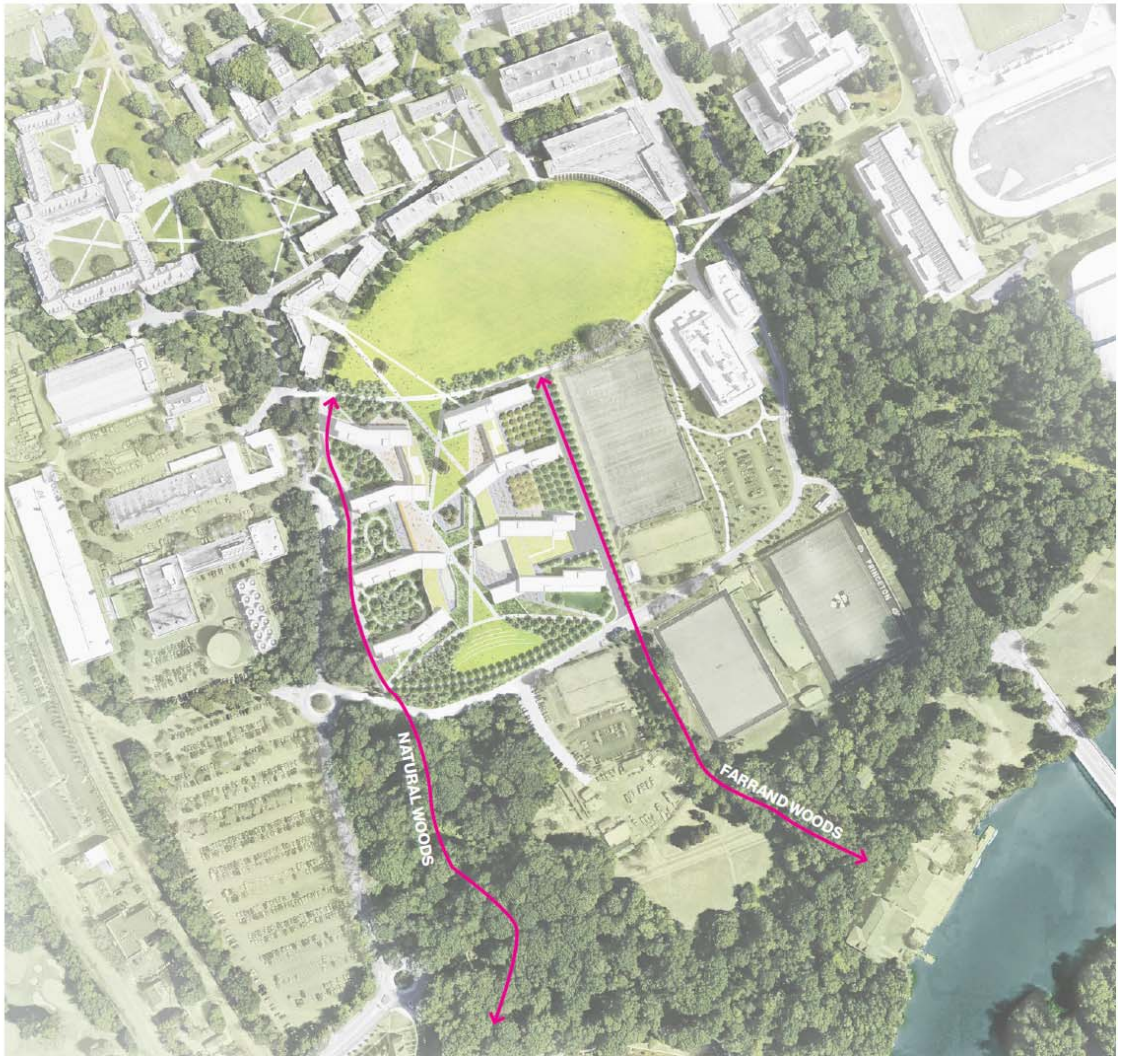
Farrand Woods


Natural Woods


NATURAL WOODS
FARRAND WOODS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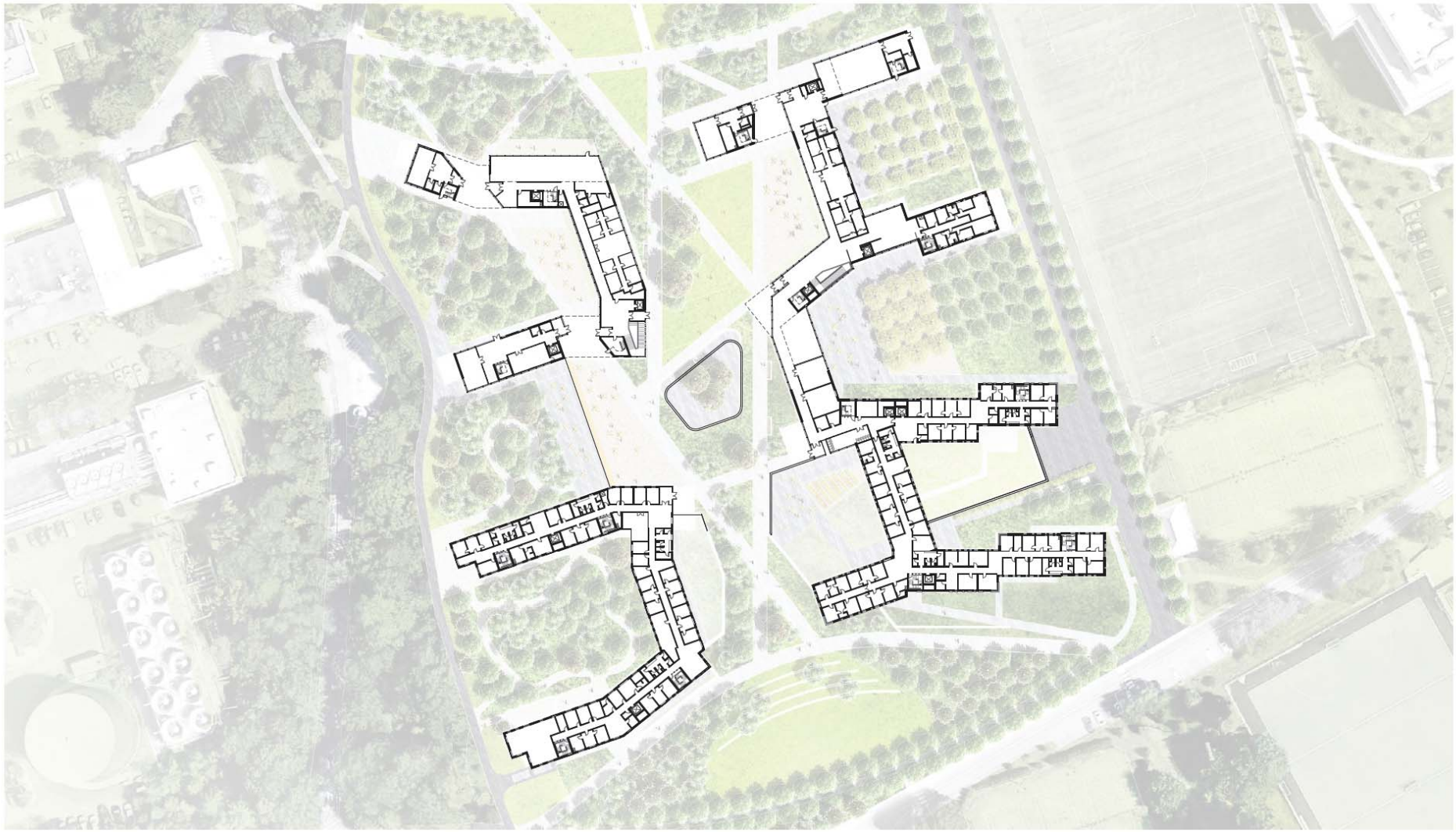

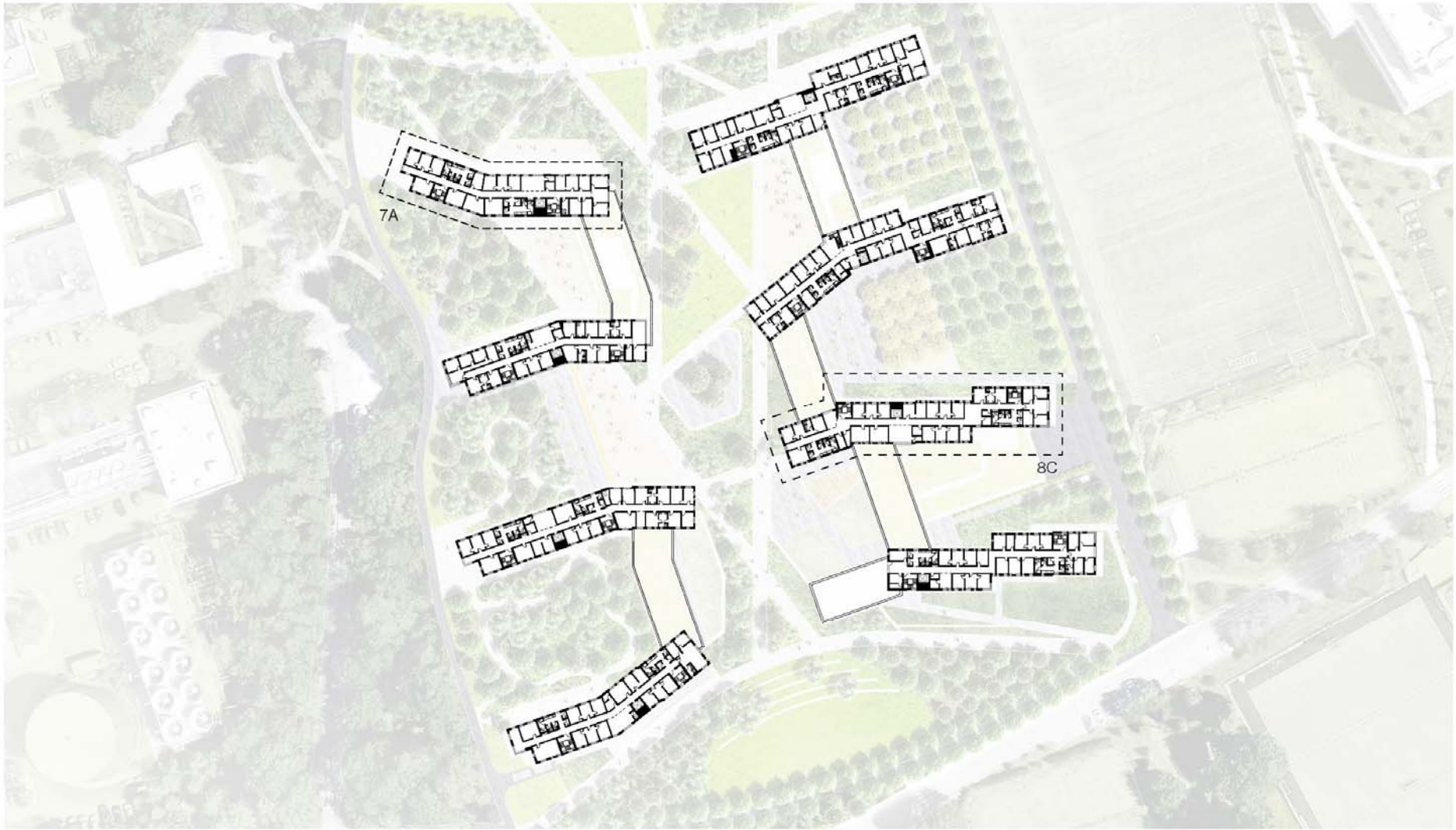
7A
8C


59'
74'
69'
67'
77'
173'
45'
53'
45'
50'
72'

Sustainable Design

This project incorporates Princeton's Sustainability Indicators into the building systems and design features. The project will pursue a minimum of LEED Gold certification or equivalency under the LEED v4 Building design and Construction program.

Sustainable elements of the building and site design include:

- **Enhanced pedestrian and cycling network with bicycle parking**
- **Landscape design reinforces connection to the existing woodland**
- **No light pollution to reduce the consequences of development on wildlife**
- **Soil amendment on site used for proposed planting materials**
- **Bioretention basins manage stormwater on-site for the 90th percentile rainfall event and remove contaminants**
- **Permeable pavers increase the permeability of the site to stormwater infiltration, light colored, high albedo paving materials**
- **Landscape with native species and no permanent irrigation system**
- **Water efficient plumbing fixtures, equipment, and appliances**
- **Building form maximizes access to daylight, views, and natural ventilation**
- **Passive solar buildings with N-S exposures for optimal solar control**
- **High performance envelope (R-25 walls, R-31 roos, low-e IGUs w/argon)**
- **Efficient lighting fixtures and controls**
- **Decoupled HVAC design with energy recovery ventilators (ERV) DOAS and hydronic thermal units**
- **DHW heat pumps recover heat from kitchen equipment and exhaust**
- **"Free Heat" campus steam condensate for building heating and DHW**
- **Ability to sort at floor trash rooms, ability to cart sorted trash**
- **75% construction and demolition waste diversion rate**
- **Interior product selection criteria will focus on low toxicity, low emitting products**

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