CAMPUS CAPACITY AND ASSESSMENT STUDY

August 7, 2017
Guiding Principles

- Strengthen Identity and Brand
- Enhance Stewardship of Campus Resources
- Re-prioritize Circulation
- Connect the Campus
- Promote Vibrancy
Strengthen Identity & Brand

GUIDING PRINCIPLE

Strengthen the identity and brand of NC State by leveraging its location in the region, creating welcoming gateways for the surrounding communities, augmenting existing iconic spaces and buildings, and clarifying campus edges and gateways.

STRATEGIES

1. Create a consistent quality and character for all major gateways
2. Prioritize Western Boulevard gateways and streetscape for improvement
3. Engage Hillsborough Street with active uses and streetscape while creating a more welcoming, porous edge to the campus
4. Identify strategic partners to help enhance neighboring landholdings and streets that are critical to the University’s mission, identity, interface, and connectivity
Strengthen Identity and Brand

Strategy:

• Create a consistent quality and character for all major gateways

• Build off of strong brand and recent successful projects
Strengthen Identity and Brand

Strategy:

• Create a consistent quality and character for all major gateways.
Strengthen Identity and Brand

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• Create a consistent quality and character for all major gateways
Strengthen Identity and Brand

**Strategy:**

- Identify strategic partners to help enhance neighboring landholdings and streets that are critical to the University’s identity, interface, and connectivity.

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Extension of Pullen Rd

“Road Diet” for Centennial Pkwy.
Strengthen Identity and Brand

**Strategy:**

- Identify strategic partners to help enhance neighboring landholdings and streets that are critical to the University’s identity, interface, and connectivity

- Opportunities along Hillsborough Street, Avent Ferry Road and Western Boulevard
Strengthen Identity and Brand

**Strategy:**

- Engage Hillsborough Street with active uses and streetscape
Guiding Principle

Strengthen Identity and Brand

Strategy Example

Engage Hillsborough Street with active uses and streetscape while creating a more welcoming, porous edge to the campus
Guiding Principle

**Strengthen Identity and Brand**

Strategy Example

Engage Hillsborough Street with active uses and streetscape while creating a more welcoming, porous edge to the campus.
Enhance Stewardship of Campus Resources

GUIDING PRINCIPLE

Enhance campus stewardship by ensuring the highest and best use of land and resources, excellent teaching and research facilities, and quality of and connectivity between, the University’s diverse landscapes.

STRATEGIES

1. Improve adjacency, utilization, and condition of facilities through strategic renovation, demolition, and new construction
2. Prioritize infill development to densify campus and promote collaboration and innovation
3. Enhance, connect, and create vibrant, iconic landscapes throughout campus
4. Incorporate working landscapes and visible stormwater management systems where appropriate throughout campus to support sustainable initiatives and educate the campus community
5. Capitalize on partnership opportunities to improve campus edges and programmatic connections between campuses and to deliver additional facilities
Enhance Stewardship of Campus Resources

Guiding Principle

Strategy Example

Enhance, connect, and create vibrant, iconic landscapes throughout campus

Legend:
- Blank facades/loading/service
- Secondary entrances/active facades
- Front doors
- Existing Open Space
Guiding Principle

Enhance Stewardship of Campus Resources

Strategy Example

Enhance, connect, and create vibrant, iconic landscapes throughout campus
Enhance Stewardship of Campus Resources

Strategies

• Improve adjacency, utilization, and condition through strategic renovation, demolition, and new construction of facilities.
Enhance Stewardship of Campus Resources

Strategies

• Enhance, connect, and create vibrant, iconic landscapes throughout campus

• Incorporate working landscapes and visible stormwater management systems where appropriate throughout campus to support sustainable initiatives and educate the campus community
Enhance Stewardship of Campus Resources

Strategies

• Capitalize on partnership opportunities to improve campus edges and programmatic connections between campuses and deliver additional facilities
Enhance Stewardship of Campus Resources

Strategies

• Capitalize on partnership opportunities to improve campus edges and programmatic connections between campuses and to deliver additional facilities
Re-Prioritize Circulation

GUIDING PRINCIPLE

Create a closer campus community between geographically-dispersed units by re-prioritizing modes of circulation on and around campus to provide a safe, healthy, and active campus supported by consistent and reliable transit. *Pedestrians > Bike > Bus > Vehicle*

STRATEGIES

1. Enhance on-campus pedestrian crossings
2. Eliminate/reduce surface parking in the campus core
3. Keep vehicular access and parking at campus edges
4. Encourage a ‘park once’ mentality by adjusting the parking management system
5. Support alternative means of transportation; improve bikeways and pedestrian pathways
6. Re-envision Cates Avenue and redirect traffic south to remove vehicular congestion in an active pedestrian area
Re-Prioritize Circulation

Strategies

• Enhance pedestrian crossings
Re-Prioritize Circulation

Strategies

• Eliminate/reduce surface parking in the campus core
• Keep vehicular access and parking at campus edges

Kilgore Hall

Emory University Before

Loading Dock
Re-Prioritize Circulation

Strategies

• Eliminate/reduce surface parking in the campus core
• Keep vehicular access and parking at campus edges
Re-Prioritize Circulation

Strategies

• Eliminate/reduce surface parking in the campus core
• Keep vehicular access and parking at campus edges

Behind 1911 Building - Before
Re-Prioritize Circulation

Strategies

- Eliminate/reduce surface parking in the campus core
- Keep vehicular access and parking at campus edges

Behind 1911 Building - After
Re-Prioritize Circulation

Strategies

• Support alternative means of transportation; improve bikeways and pedestrian pathways
Strategies

Strategy:
• Close Cates Ave and redirect traffic south to remove vehicular congestion in an active pedestrian area
Guiding Principle

Re-prioritize Circulation

Strategy Example

Re-envision Cates Avenue and redirect traffic south to remove vehicular congestion in an active pedestrian area

Existing Cates Avenue
Guiding Principle

Re-prioritize Circulation

Strategy Example

Re-envision Cates Avenue and redirect traffic south to remove vehicular congestion in an active pedestrian area

Possible Future Cates Avenue
Connect the Campus

GUIDING PRINCIPLE

Advance the culture of collaboration and interdisciplinarity by improving programmatic adjacencies and mobility, and creating strong connections between University landholdings.

STRATEGIES

1. Increase programmatic connections by strategically locating interdisciplinary facilities
2. Provide dedicated pedestrian, bike, and bus routes throughout campus
3. Provide direct and fast transit connections between campus precincts
4. Activate campus corridors and public streets to shorten perceived walking distances and to add vibrancy
5. Create a bridge between North and Central Precincts to mitigate topography, reducing travel time and distance
6. Connect Nazareth Street to Morrill Drive and Morrill Drive to Broughton Drive to create a strong pedestrian path from Hillsborough Street to Centennial Campus
7. Enhance Western Boulevard pedestrian connections by adding key bridges, tunnels, or caps (i.e., tunnel top-surface requirements/amenities)
Guiding Principles

Connect the Campus

Pedestrian/bike routes
Shared pedestrian/bike/bus/service routes
Auto-dominated routes

Strategy Example

Create a bridge between North and Central Precincts to mitigate topography, reducing travel time and distance.
Connect the Campus

Northern Arizona University Case Study:

- Goal was to connect three campus areas into one campus
- Master Plan recommended a contiguous north south spine for pedestrians and bikes
- Interweave a busway transit spine with the ped/bike spine

Site of proposed housing
Connect the Campus

Strategy:

- Create a bridge between North and Central Campus to mitigate topography and reduce travel time and distance
Connect the Campus

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• Create a bridge between North and Central Campus to mitigate topography and reduce travel time and distance

• Enhance Western Boulevard pedestrian connections by adding key bridges, tunnels, or caps
Connect the Campus

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Strategy:

• Enhance Western Boulevard pedestrian connections by adding key bridges, tunnels, or caps

• Western Boulevard is one of the greatest barriers to physical connectivity on campus and poses a large safety risk for bikes and pedestrians.

• Western Boulevard and Avent Ferry Road are both important connectors for the city and commuters
Connect the Campus

Strategy:

• Provides multiple at-grade connections for pedestrians without vehicular traffic
• N-S vehicular connections remain
• Reduces number of intersections along Western Boulevard
Strategies

Strategy:

• Provide dedicated pedestrian, bike, bus routes throughout campus

• Convert Dan Allen Drive into a dedicated multi-modal path for pedestrians, bikes, and buses to connect all land holdings
Promote Vibrancy

GUIDING PRINCIPLE

Promote a vibrant campus by creating spaces for collaboration and gathering, concentrating activity and density, and ensuring a mix of uses in each precinct.

STRATEGIES

1. Export the energy of the Central Precinct to other parts of campus by blending uses and creating critical mass at key campus crossroads

2. Develop shared spaces and hubs to inspire community, collaboration, and innovation like Park Shops, Hunt Library, Talley Student Union, Carmichael Recreation Center, and Hillsborough Street

3. Renovate or build new interdisciplinary facilities that bring people together to collaborate, innovate, and address complex problems

4. Improve adjacencies and concentrate activity in strategic locations
Promote Vibrancy

Develop shared spaces and hubs to inspire community, collaboration, and innovation

Academic Hubs
- Interdisciplinary teaching/research building(s)
- Crossroads of different colleges/departments
- Study/collaboration space
- Food/café
- Active open space

Student Life Hubs
- Student Housing
- Dining
- Recreation
- Study/collaboration space
- Active open space

Partnership Hubs
- Corporate partnership buildings
- University teaching/research facility(s)
- Café/dining
- Housing
- Recreation, retail
- Active open space
- Study/collaboration space

Strategy Example
Promote Vibrancy

Guiding Principles

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Strategy Example

Develop shared spaces and hubs to inspire community, collaboration, and innovation
Promote Vibrancy

Strategy:

• Export the energy of the central precinct to other parts of campus by blending uses and creating critical mass
Promote Vibrancy

Strategy:
• Add areas that promote collaboration and gathering like Park Shops, Hunt Library, Talley Student Union, Carmichael Recreation Center, and Hillsborough Street.

Existing Hillsborough and Brooks Intersection

Existing Lake Raleigh Waterfront

Thomas Jefferson Univ., Philadelphia PA

University of Wisconsin Union
**Strategies**

**Strategy:**

- Add areas that promote collaboration and gathering like Park Shops, Hunt Library, Talley Student Union, Carmichael Recreation Center, and Hillsborough Street.
- Renovate or build new interdisciplinary facilities that bring people together to collaborate and address complex problems.
Promote Vibrancy

**Strategy:**

- Renovate or build new interdisciplinary facilities that bring people together to collaborate and address complex problems

Wisconsin Discovery Building

- Building: 330,000 sf; Ground floor: 40,000 sf available for programming

Opportunity at Harrelson Hall Site
Guiding Principles

- Strengthen Identity and Brand
- Enhance Stewardship of Campus Resources
- Re-prioritize Circulation
- Connect the Campus
- Promote Vibrancy
Guiding Principles

Long-Term Development of Campus

Long term development of campus should reflect/reinforce the Guiding Principles

Existing Land Use

- Academic/Research
- Athletics
- Univ. Owned Residential
- Non-Univ. Owned Residential
- Student Life + Rec
- Hospital
- On-Campus Partnerships
- Off-Campus Partnerships
- Service/Long-term Growth

Land Use Strategy 1: Several Academic Cores

Land Use Strategy 2: Merging Academic Cores

Land Use Strategy – West of I-440
Long-Term Land Use Strategies

Existing Campus
Long-Term Land Use Strategies

Strategy 1

- Create a hub along Dan Allen Dr connecting CNR to the rest of campus
- Densify housing in the central precinct with an active student life and athletics corridor along Cates Ave
- Leverage Partnerships (Centennial, Blue Ridge, Spring Hill, Mission Valley, Hillsborough)
Long-Term Land Use Strategies

Strategy 1

- Create a hub along Dan Allen Dr connecting CNR to the rest of campus
- Densify housing in the central precinct with an active student life and athletics corridor along Cates Ave
- Leverage Partnerships (Centennial, Blue Ridge, Spring Hill, Mission Valley, Hillsborough)
Long-Term Land Use Strategies

**Strategy 2**

- Improve adjacencies in the academic cores, student housing, and athletics
- Leverage Partnerships (Centennial, Blue Ridge, Spring Hill, Mission Valley, Hillsborough)
Long-Term Land Use Strategies

Strategy 2

- Improve adjacencies in the academic cores, student housing, and athletics
- Leverage Partnerships (Centennial, Blue Ridge, Spring Hill, Mission Valley, Hillsborough)