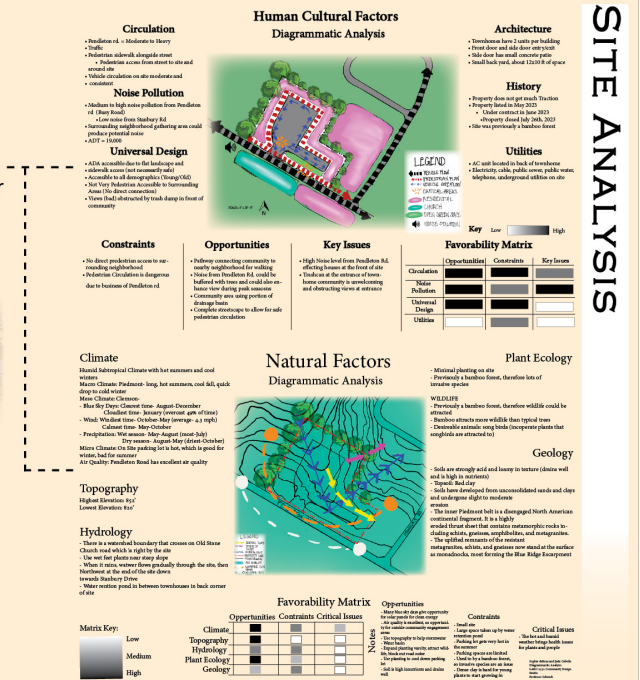


SITE PLAN



PENDLETON TOWNHOME DEVELOPMENT

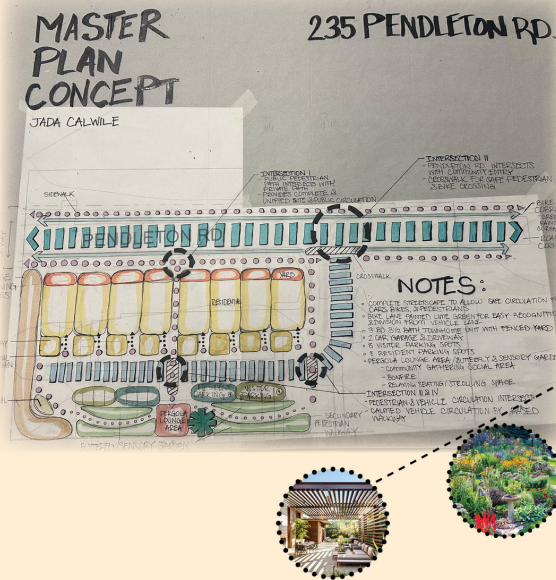


● CLEMSON UNIVERSITY | SPRING 2024
LARC 2550 COMMUNITY DESIGN STUDIO

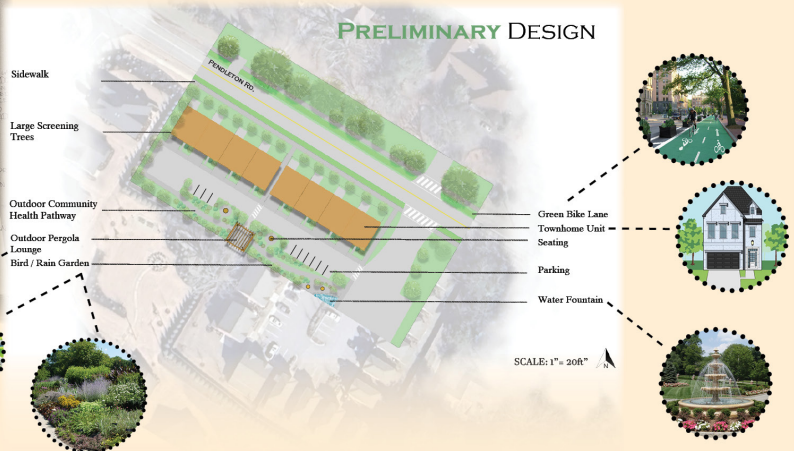
● 235 PENDLETON RD
JADA CALWILE



CONCEPTUAL DESIGN



PRELIMINARY DESIGN



PENDLETON TOWNHOME DEVELOPMENT

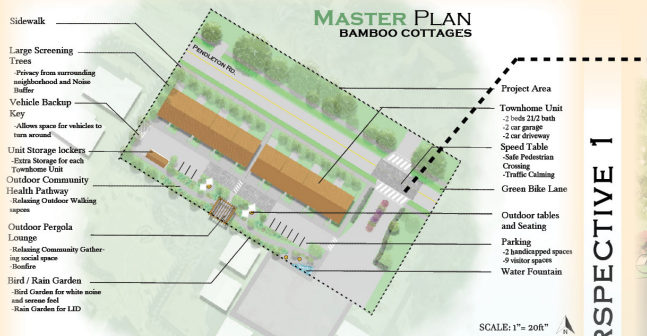


● CLEMSON UNIVERSITY | SPRING 2024
LARC 2550 COMMUNITY DESIGN STUDIO
PROF. SCHURCH, FASLA

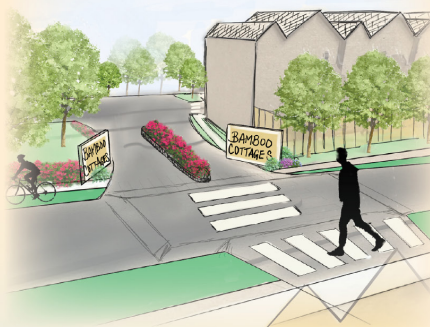
● 235 PENDLETON RD
JADA CALWILE



MASTER PLAN



PERSPECTIVE 1



My design focuses on the older population's overall health and wellness. My goal is to design a low impact space that benefits their community mentally and physically while bringing everyone together. I want to address the issue of the high noise level from Pendleton rd., buffering that with dense tree plantings. My incorporation of a full streetscape includes a green bike lane for additional modes of transportation as well as safer pedestrian and bike circulation. I also enhance the visual character of the existing site with tree plantings and beautiful outdoor gathering spaces.

DESIGN PROGRAM

PENDLETON TOWNHOME DEVELOPMENT CLEMSON, SC



• CLEMSON UNIVERSITY | SPRING 2024
LARC 2550 COMMUNITY DESIGN STUDIO
PROF. SCHURCH, FASLA

• 235 PENDLETON RD
JADA CALWILE



SECTION 1



PENDLETON TOWNHOME DEVELOPMENT CLEMSON, SC



• CLEMSON UNIVERSITY | SPRING 2024
LARC 2550 COMMUNITY DESIGN STUDIO
PROF. SCHURCH, FASLA

• 235 PENDLETON RD
JADA CALWILE



MASTER PLAN



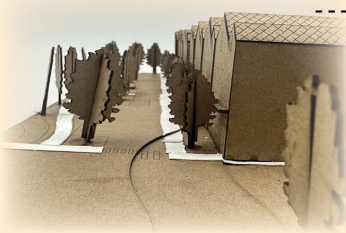
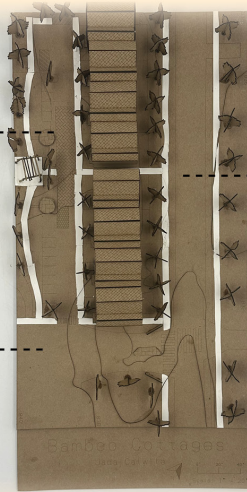
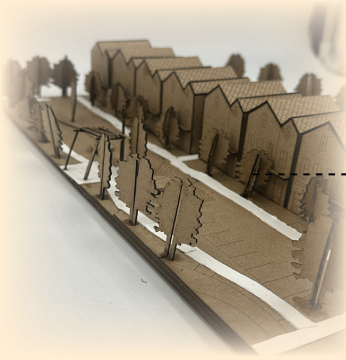
PERSPECTIVE 2



SECTION 2



3D MODEL

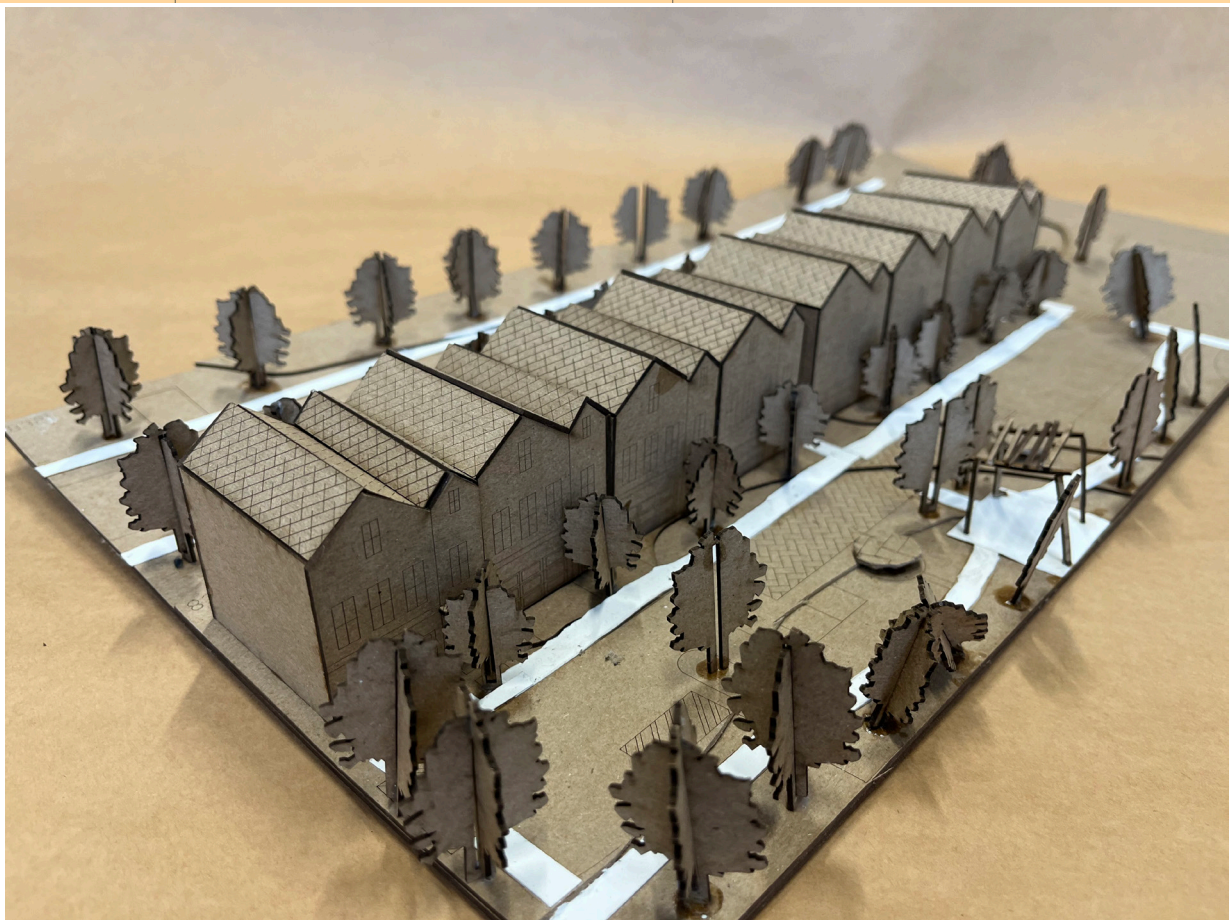


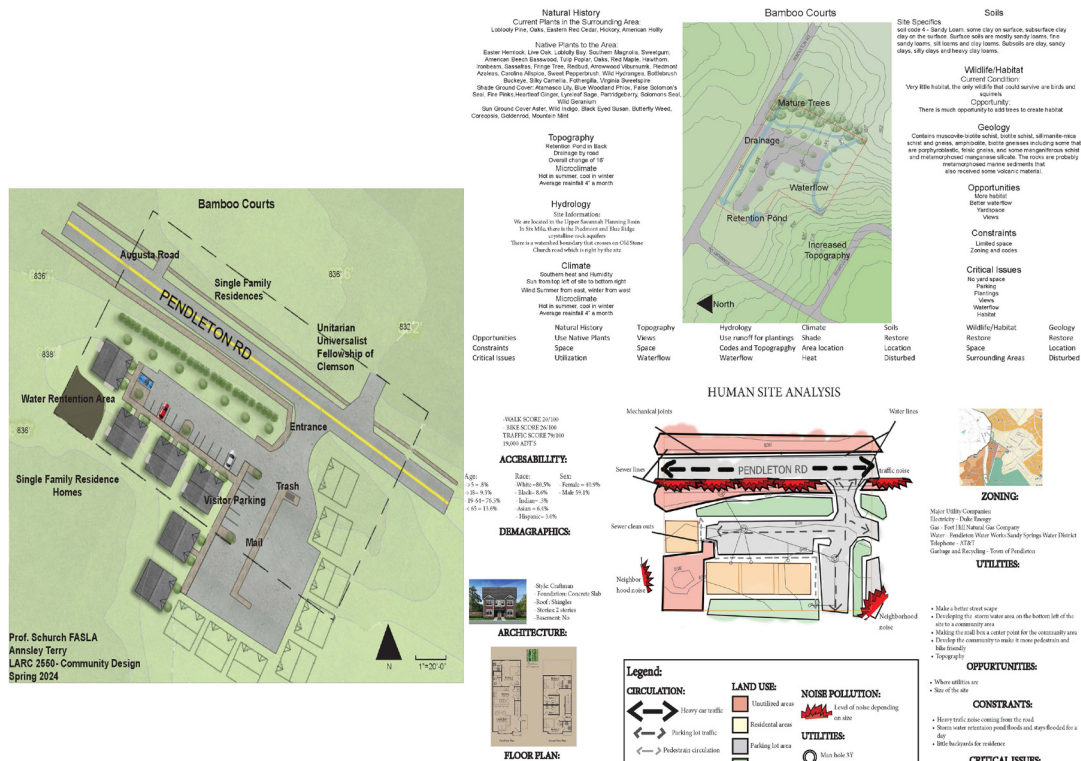
PENDLETON TOWNHOME DEVELOPMENT CLEMSON, SC



● CLEMSON UNIVERSITY | SPRING 2024
LARC 2550 COMMUNITY DESIGN STUDIO
PROF. SCHURCH, FASLA

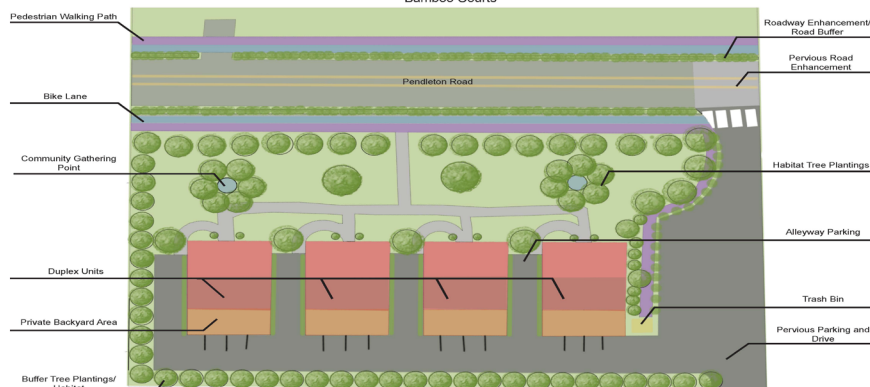
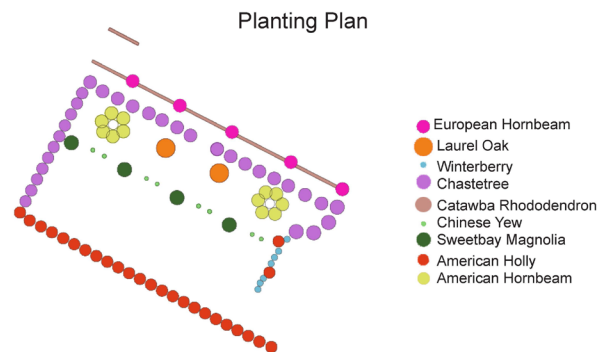
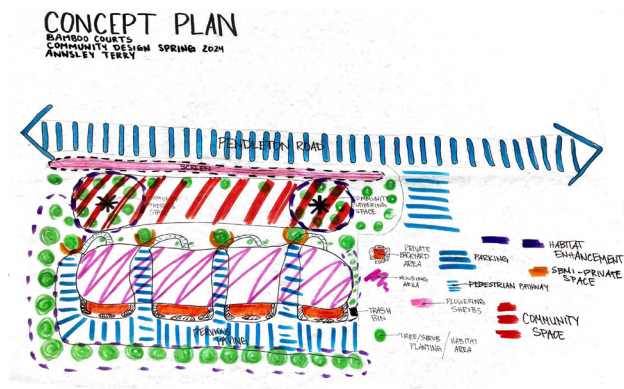
● 235 PENDLETON RD
JADA CALWILE





Prof. Thomas Schurch, FASLA
Community Design Spring 2024
Clemson Landscape Architecture
Annsley Terry

Studio focused on the study and design of communities and public spaces. Students explore multicultural, historical and ecological layers of community, as well as the role of landscape management and the creative design process to add new dimensions of meaning to these places.



Prof. Thomas Schurch, FASLA
Community Design Spring 2024
Clemson Landscape Architecture
Annsley Terry

Studio focused on the study and design of communities and public spaces. Students explore multicultural, historical and ecological layers of community, as well as the role of landscape management and the creative design process to add new dimensions of meaning to these places.

Bamboo Courts Masterplan

Design Criteria

The design for this site is accessible by using wide pathways and ramps across a gentle slope. The site contains pleasing views enhanced by habitat restoration. Low Impact Development is achieved by using permeable paving throughout the site. Community engagement is promoted by a bird watching area complete with a bird bath and specimen plantings. Safety is achieved by creating a complete street.

Walking Path and Bike Lane

- Lanes are located on both sides of the street
- Accessible
- Enhanced by plantings
- Safe

Plantings

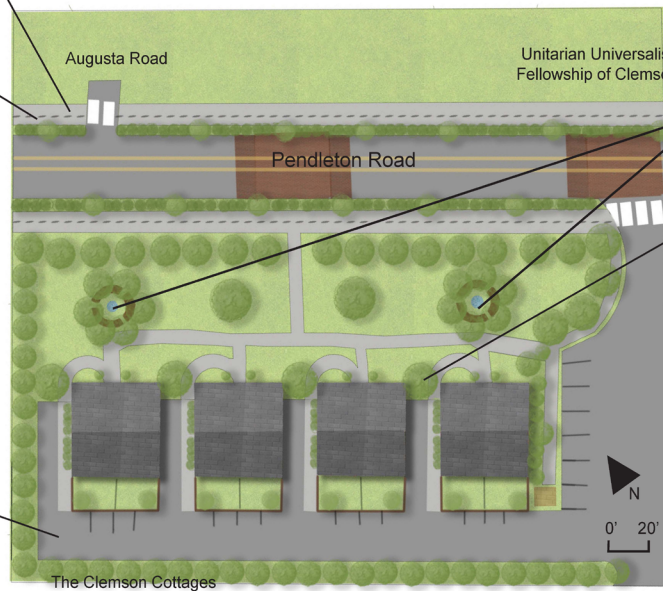
- Native with some specimen trees
- Habitat
- Views and shade

Parking

- Each unit has two parking spaces
- Right unit pull-in parking, left unit behind private backyard
- Plantings to enhance the area.

Low Impact Development

- Low impact development is achieved by using permeable pavement for the parking areas and walkways.



Community Gathering Space

- Designed to encourage residents to gather
- In center is a small birdbath surrounded by specimen trees and benches
- A common interest helps engagement.

Private Spaces

- Units have private backyard
- Semi-private spaces for the two units to share.

Accessibility

- Many areas promote accessibility
- The entrance is close to the ground
- Grounds are more level
- Parking and garbage can close by
- Pathways are wide

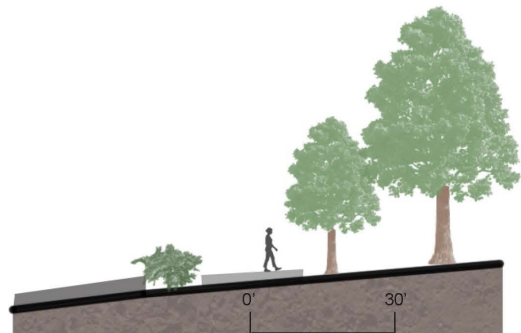
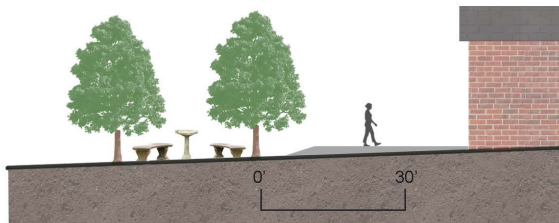
Design Program

- Accessibility
- Safety
- Habitat/Plantings
- Low Impact Development
- Community Engagement

Prof. Thomas Schurch, FASLA
Community Design Spring 2024
Clemson Landscape Architecture
Annsley Terry

Studio focused on the study and design of communities and public spaces. Students explore multicultural, historical and ecological layers of community, as well as the role of landscape management and the creative design process to add new dimensions of meaning to these places.

Sections

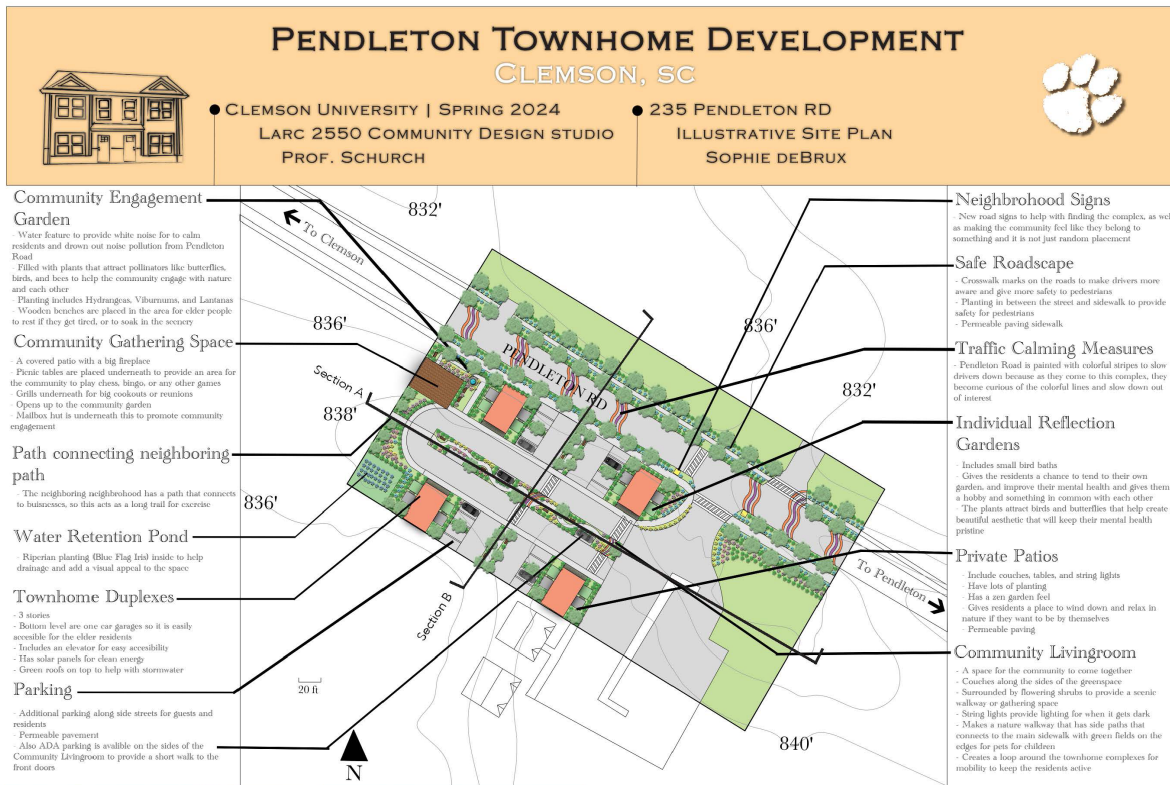


Perspectives



Prof. Thomas Schurch, FASLA
Community Design Spring 2024
Clemson Landscape Architecture
Annsley Terry

Studio focused on the study and design of communities and public spaces. Students explore multicultural, historical and ecological layers of community, as well as the role of landscape management and the creative design process to add new dimensions of meaning to these places.



Concept Statement

The revitalization of the Bamboo Cottages establishes a residential neighborhood that focuses on a strong sense of community. The features throughout the site bring the community together by creating activities for the elderly community to indulge in together, and really focuses on getting to know your neighbors. There are pathways to exercise and walk, a large gathering space with a fireplace and picnic tables for cookouts, bingo, chess, and reunions. There is a community garden filled with shrubs that attract butterflies and birds, with a bird bath that gives a serene feeling while watching and listening to nature stir around you. While being in an engaging community gives residents a sense of purpose, it is also nice to have quiet time privately. To accommodate this, there are individual patios with each townhome and private gardens that provide opportunity for new hobbies like growing your own fruits and vegetables. The site addresses the previous problem of parking by putting it somewhat out of sight and not in the center of everything with garages connected to the townhomes, and having parking spaces along the sides of the townhomes. It accommodates the elder population by providing handicap parking close to the doors. The townhomes also accommodate the elderly population by including elevators to help bring up groceries and eliminate having to take up steps. This new development is the perfect opportunity to become part of a community that loves the outdoors and being active through new hobbies or old habits!

Design Criteria

There were several factors that were important to incorporate in my design of the revitalization of the Bamboo Cottages townhome development. Three main areas of criteria were to incorporate LID (low impact development) into my design, give residents a sense of community (making them feel like they belong), and providing a safe environment for all ages. To incorporate LID, I have greenroofs to help with storm water, riparian planting in a bio retention pond at the back of the site, and permeable paving with the streets. In order to give the elderly residents a sense of community and create a place where they feel they belong, I created several different areas to bring the community together and get to know each other through their appreciation of the beauty of nature. There is a large pavillion, walking trails, and a community livingroom. Finally, to create a safe environment for all ages, there is a new safe roadscape that has moved the sidewalk in between trees and shrubs to block the road from pedestrians and create a safe, yet scenic distance. There is also painted lines on the road to slow cars down and make them aware of their surroundings. This site provides a sense of community to residents and adds the beauty of nature to the concrete slab that it once was.



Design Program Elements

Townhome Duplex's



- Features:
- Garages
 - Elevators
 - Duplexes



Private Patios



- Features:
- Couches and tables
 - Screening for privacy
 - String lights
 - Zen garden feel
 - Space for relaxation

Individual Reflection Gardens



- Features:
- Raised garden beds for planting
 - Pathway that leads to private patios
 - Chairs and a table



Community Gathering Space and Engagement Garden



- Features:
- Pavillion with picnic tables
 - Covered fireplace
 - Sheltered mailboxes
 - Butterfly garden with bird feeder connected to pavillion



Community Livingroom

- Features:
- Wooden benches
 - Path through center
 - Aesthetic perennials
 - Parallel parking along the side



LID (Low Impact Development)

- Features:
- Greenroof
 - Riparian planting in storm water basin
 - Permeable paving



Elderly Accomodations

- Features:
- ADA Accesible
 - Garages
 - Elevators in townhomes
 - Butterfly gardens with birdbaths
 - Oppertunity for new hobbies (gardening, exercising, socializing)
 - Large event spaces for bingo, chess, reunions, etc.
 - Exercise paths
 - Well lit
 - Safe roadscape



Plants



Big Leaf Hydrangeas
Hydrangea macrophylla



Viburnums
V. opulus var. americanum



Lantana
Lantana camera



Catnips
Nepeta cataria



Wintercreeper
Euonymus fortunei

Sections

Section A



Section B



Perspectives and Model



Diagrammatic Analysis

Climate

Humid Subtropical Climate with hot summers and cool winters
 Macro Climate: Piedmont- long, hot summers, cool fall, quick drop to cold winter
 Meso Climate: Clemson-
 - Blue Sky Days: Clearest time- August-December
 Cloudiest time- January (overcast 49% of time)
 - Wind: Windiest time- October-May (average- 4.3 mph)
 Calmest time- May-October
 - Precipitation: Wet season- May-August (most-July)
 Dry season- August-May (driest-October)
 Micro Climate: On Site parking lot is hot, which is good for winter, bad for summer
 Air Quality: Pendleton Road has excellent air quality

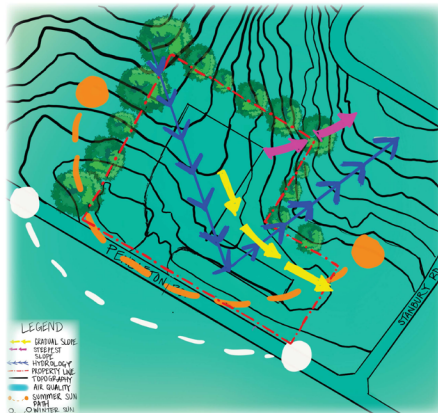
Topography

Highest Elevation: 852'
 Lowest Elevation: 820'

Hydrology

- There is a watershed boundary that crosses on Old Stone Church road which is right by the site
- Use wet feet plants near steep slope
- When it rains, water flows gradually through the site, then Northwest at the end of the site down towards Stanbury Drive
- Water retention pond in between townhouses in back corner of site

Natural Factors Diagrammatic Analysis



Plant Ecology

- Minimal planting on site
- Previously a bamboo forest, therefore lots of invasive species

WILDLIFE
 - Previously a bamboo forest, therefore wildlife could be attracted
 - Bamboo attracts more wildlife than typical trees
 - Desirable animals: song birds (incorporate plants that songbirds are attracted to)

Geology

- Soils are strongly acid and loamy in texture (drains well and is high in nutrients)
- Topsoil: Red clay
- Soils have developed from unconsolidated sands and clays and undergone slight to moderate erosion
- The inner Piedmont belt is a disengaged North American continental fragment. It is a highly eroded thrust sheet that contains metamorphic rocks including schists, gneisses, amphibolites, and metagranites.
- The uplifted remnants of the resistant metagranites, schists, and gneisses now stand at the surface as monadnocks, most forming the Blue Ridge Escarpment

Favorability Matrix

Matrix Key:



	Opportunities	Constraints	Critical Issues
Climate	High	Low	Medium
Topography	High	Low	Medium
Hydrology	High	Low	Medium
Plant Ecology	High	Low	Medium
Geology	High	Low	Medium

Notes

Opportunities

- Many blue sky days give opportunity for solar panels for clean energy
- Air quality is excellent, so opportunity for outside community engagement areas
- Use topography to help stormwater
- Water basin
- Expand planting variety, attract wildlife, block out road noise
- Use planting to cool down parking lot
- Soil is high in nutrients and drains well

Constraints

- Small site
- Large space taken up by water retention pond
- Parking lot gets very hot in the summer
- Parking spaces are limited
- Used to be a bamboo forest, so invasive species are an issue
- Dense clay is hard for young plants to start growing in

Critical Issues

- The hot and humid weather brings health issues for plants and people

Sophie deBrux and Jada Cabell
 Diagrammatic Analysis
 LARC 2550 Community Design Studio
 Professor G. Schuch

Existing Site Analysis

PENDLETON TOWNHOME DEVELOPMENT CLEMSON, SC

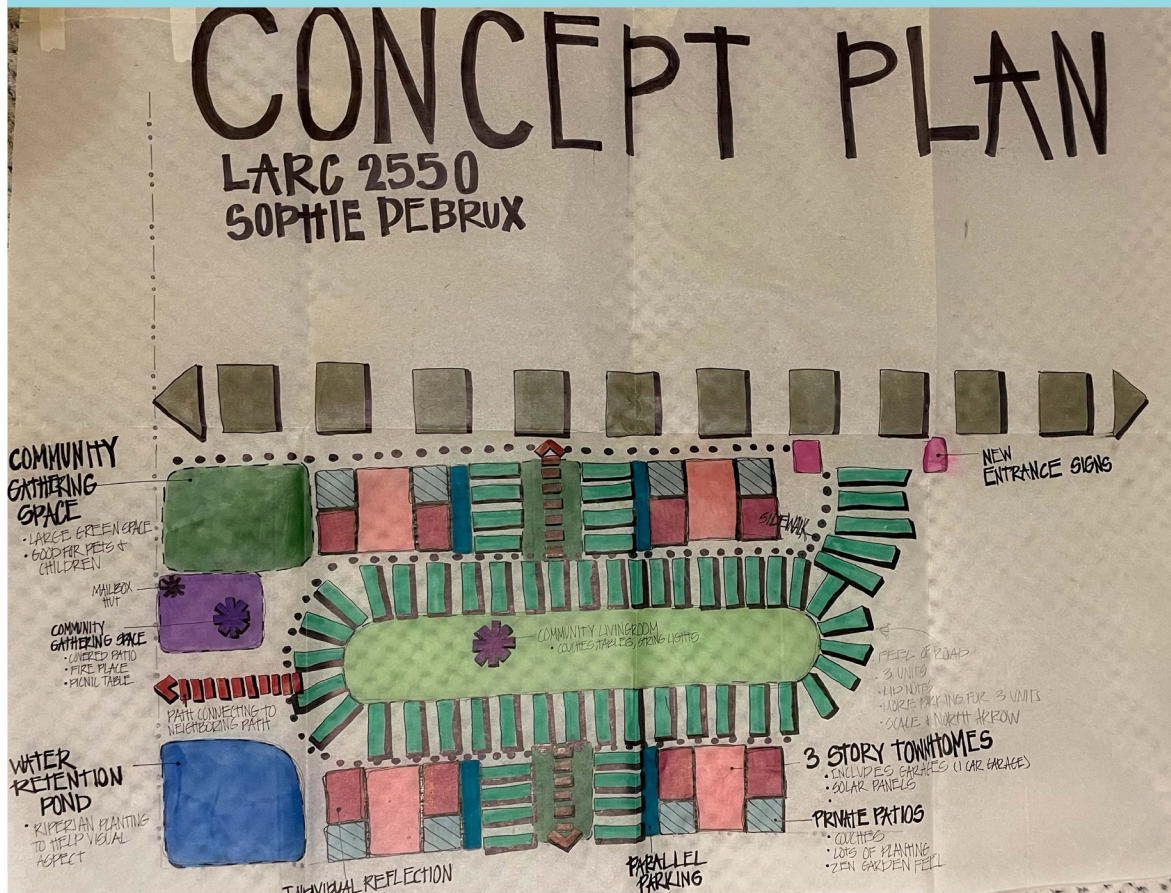


● CLEMSON UNIVERSITY | SPRING 2024
 LARC 2550 COMMUNITY DESIGN STUDIO
 PROF. SCHUCH

● 235 PENDLETON RD
 ILLUSTRATIVE SITE PLAN
 SOPHIE DEBRUX



Conceptual Design



Preliminary Master Plan

PENDLETON TOWNHOME DEVELOPMENT

CLEMSON, SC



● CLEMSON UNIVERSITY | SPRING 2024
LARC 2550 COMMUNITY DESIGN STUDIO
PROF. SCHURCH

● 235 PENDLETON RD
ILLUSTRATIVE SITE PLAN
SOPHIE DEBRUX



