Beech Bluff County Park

Schematic Design

February 15, 2021

Eric Staehle, Wake County Senior Facilities Project Manager Eric Davis, Landscape Architect, Vice President, Surface 678 Matt Griffith, Architect, Founding Partner, in situ







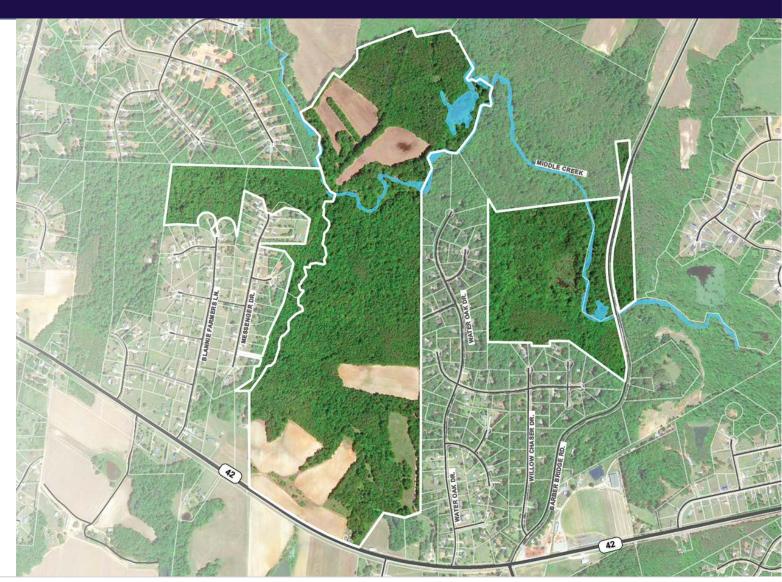






Today's Discussion

- Introduction
 - Project Team
 - o PROS Parks
- Master Plan Review
- Site Plan Program
- Building Program
- Sustainability Strategies
- Budget and Schedule
- Questions



Project Team



WAKE COUNTY SIIFACE











design dimension inc.

CRASH STUDIO LLC



Commissioners Goals / Objectives / Policies

- BOC Growth and Sustainability Objective GS1 (2020)
 - o "Implement a comprehensive approach for preserving open space and developing parks and greenways to address gaps, leverage opportunities and resources, and enhance collaboration with municipal and non-profit partners."
- Renewable Energy Resolution (2018)
- Native Plants Resolution (2018)
- Public Art Policy (2017)
- Wake County Design Guidelines & Standards
- Energy Design and Management Guidelines



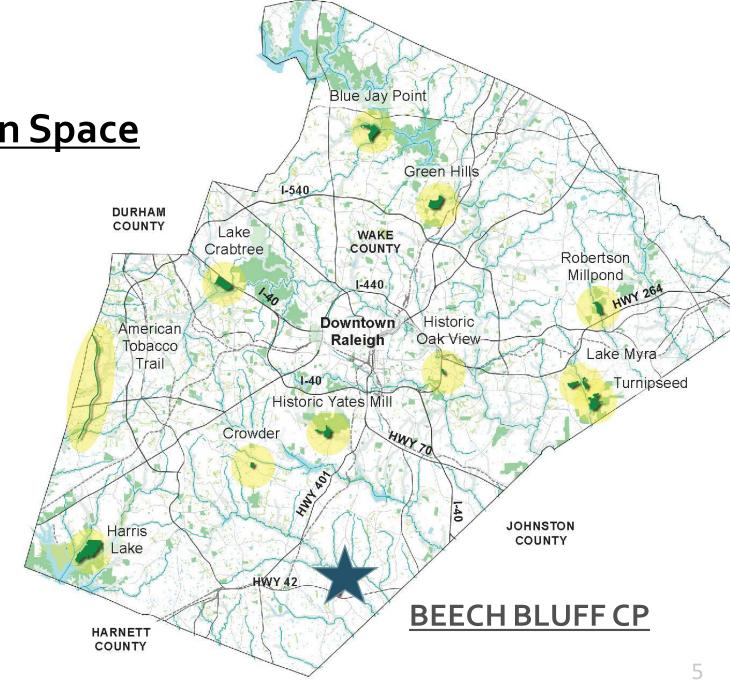
Introduction

Parks Recreation and Open Space

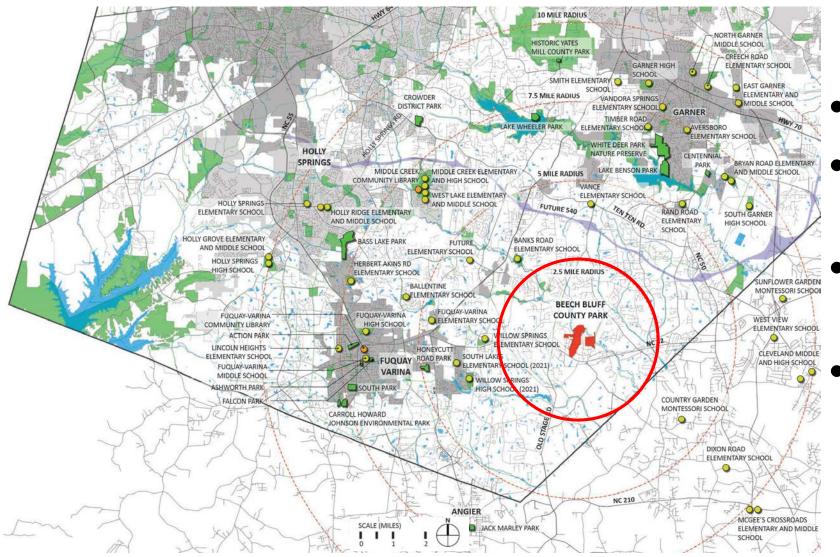
Natural Resource Based Programming Focus

- Cultural
- Environmental
- Recreational

- (8) County Parks
- (2) Nature Preserves



Site Context



- 2018 PRGOS Bond
- Located along NC HWY 42
- Wake County Jurisdiction
- Adjacent to Fuquay Varina and Garner

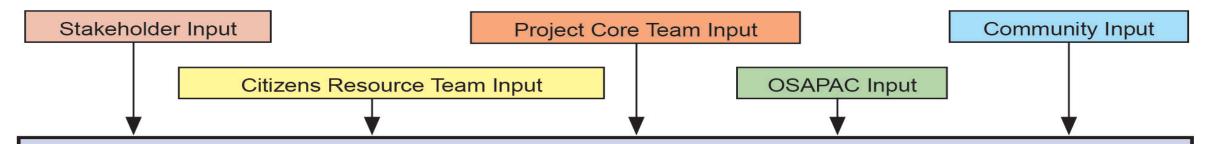
Creating the Park Mission Statement

Beech Bluff County Park aims to provide a universally inclusive recreational amenity to the residents of Wake County and all visitors focusing on the following core principles:

- Protect, Restore and Enhance Ecological Diversity
- Elevate Historical and Cultural Significance
- Promote Human Health and Wellness

The park is to be a model of **Resiliency and Stewardship**.

Evaluating Program Options



1. HIKING TRAILS

- Provide trails with ADA Access
- Varying length loop trails
- Cross Country Running (3K and 5K)
- Tree Top / Canopy Walk
- Future connections to schools & public amenities
- Challenge hiking trails for all fitness levels

2. STORY MAPPING / ECOLOGY TOUR

- Environmental education trails
- Web based apps / visual aids

3. WATER ACCESS

- Wildlife observation platforms
- Stormwater management / wetland research

4. FITNESS

- Boulder climbing walls
- Playground fitness activities all ages
- Multi-purpose open lawn
- Trail fitness stations

5. AGRICULTURE

- Community gardens
- Farm lease program
- Interpret agricultural history

6. PARK CENTER

- Multi-use conference rooms
- Indoor / outdoor exhibit spaces
- Indoor / outdoor classrooms
- Staff offices
- Maintenance facility

7. MULTI USE SHELTERS / RESTROOMS

- Large / small Shelters

8. ART / HISTORY

- Story mapping / cultural significance
- Industrial art / historical machinery
- Experiential art / habitat building
- Environmental art
- Artisan market

9. PLAYGROUND

- Climbing / ropes course / boulders / trees
- Tree canopy walk / zip lines
- Nature play
- Tree houses / fort building
- Hillside slides
- Obstacle courses / challenge play

10. RENEWABLE ENERGY

- Solar panels

Defining the Project Initiatives

- Sustainable SITES Initiative
- Green Stormwater Infrastructure
- Solar Energy / Geothermal Considerations
- Park Center Buildings and Site Integration
- Restoring Native Plant Ecosystems
- Public Art as part of the design process
- Community Gardens / Demonstration Gardens
- Performance Monitoring

Site Plan Program Beech Bluff County Park

Sustainable SITES Initiative

"Creating ecologically resilient communities"

- Rating system for sustainable land development projects
- Administered by GBCI
- SITES and LEED synergies
- North Carolina certified projects



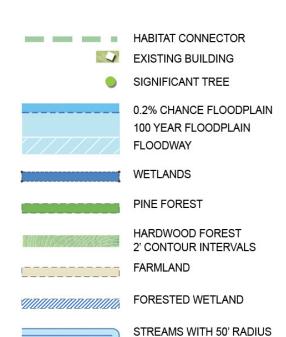






Existing Site

- 304 Acres
- Separate Parcels
- Middle Creek
- Surrounding Context



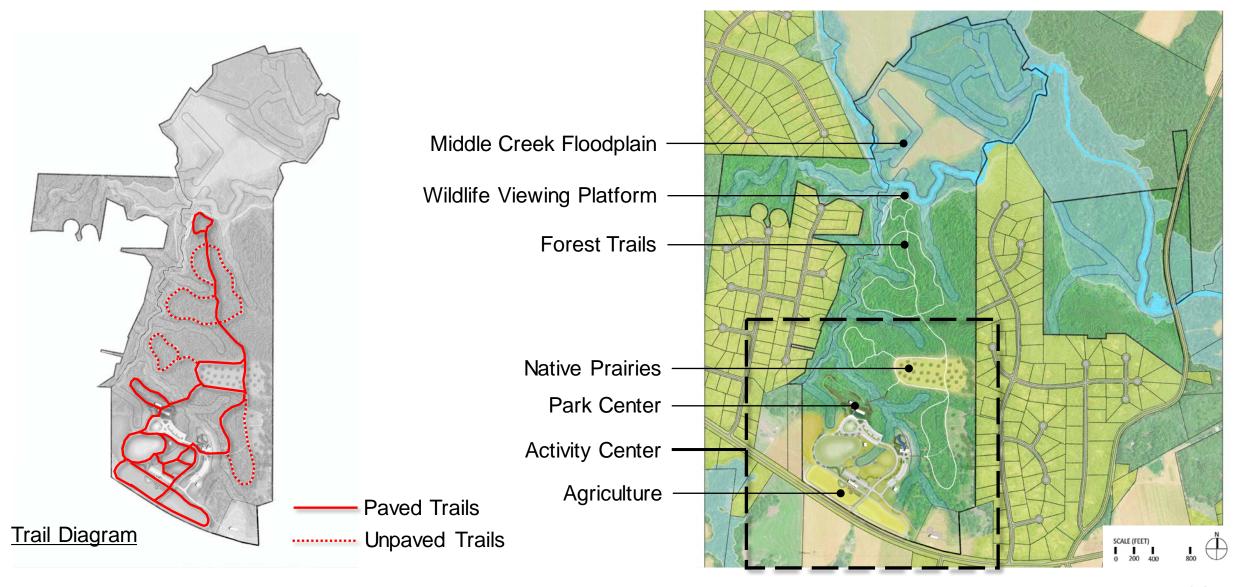
BUFFER



Habitat Section



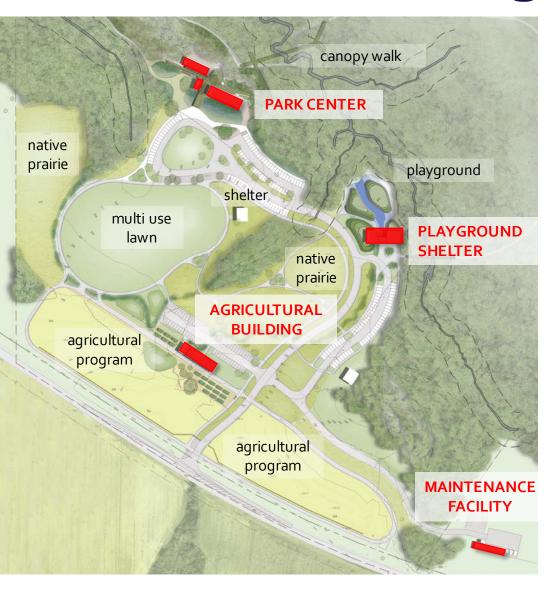
Proposed Site Plan



Proposed Site Plan



Site Plan / Strategies



BUILDING + SITE

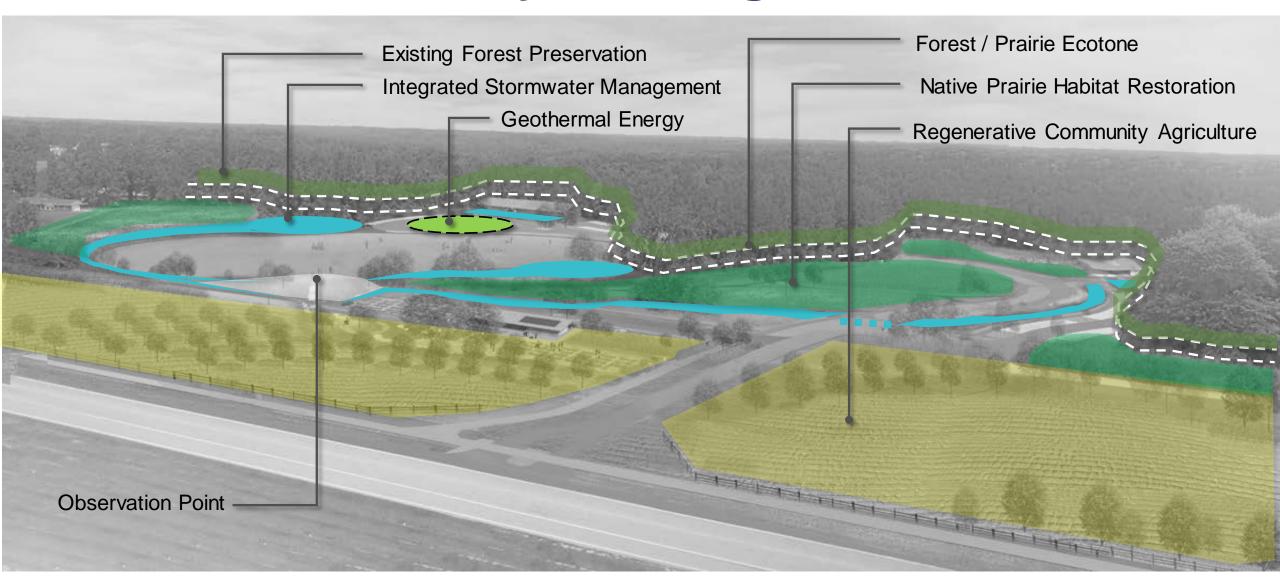
- Solar energy
- Location and orientation
- Rainwater harvesting
- Geothermal energy
- Insulation
- Recycled materials
- Performance monitoring
- High reflectance materials

- Habitat restoration
- Limit disturbance
- Reuse existing soils
- Preserve prime farmland
- Preserve forest community
- Integrated stormwater management
- Salvage and reuse existing materials
- Native Plants Landscaping





Site Sustainability Strategies



Building Program Beech Bluff County Park

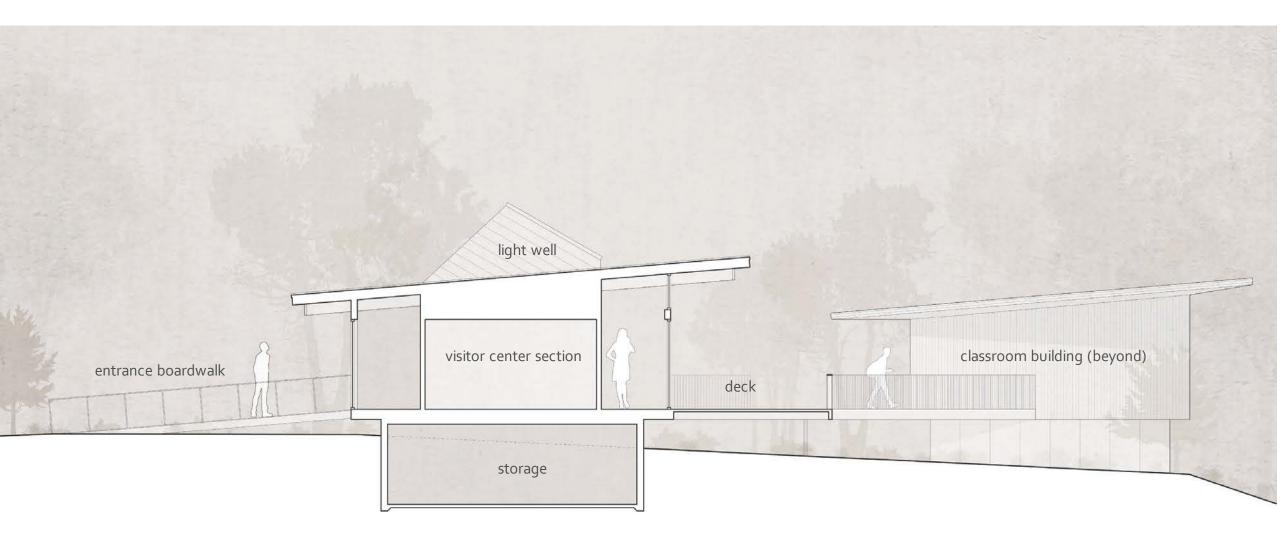
Park Center Perspective



Park Center Plan



Park Center Section



Park Center Perspective



Agricultural Building Perspective



Agricultural Building Plan



Playground Shelter Perspective



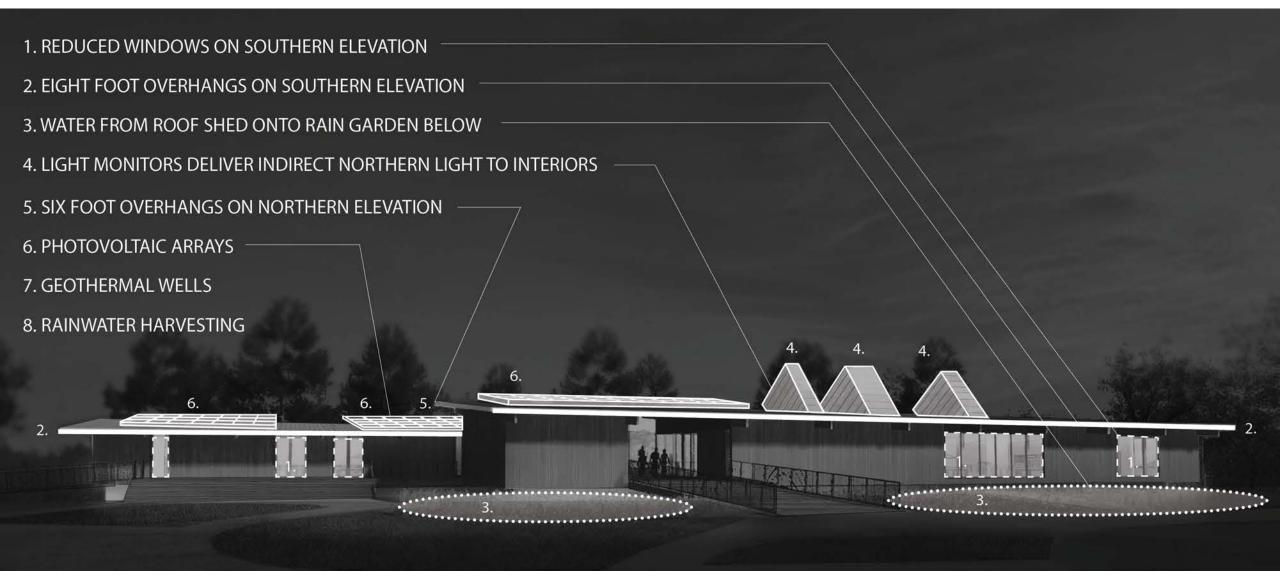
Playground Shelter Perspective



Maintenance Facility Perspective



Building Sustainability Strategies



Summary, Budget and Schedule Beech Bluff County Park

Project Take-Aways

- Park Center Buildings and Site Integration
- Solar Energy Considerations
- Green Stormwater Infrastructure
- Sustainable SITES Initiative
- Public Art as part of the design process
- Demonstration Gardens / Community Gardens
- Native Plants Landscaping / Agricultural Landscaping
- Broad Educational Program Opportunities

Schedule



WAKE COUNTY

Project Budget Summary

Estimated Project Costs

•	Site Development / Landscaping / Ag.	\$ 5,800,000
•	Building Construction	\$ 4,965,000
•	Public Art Public Art	\$ 120,000
•	Professional Services, Permits, Fees	\$ 933,700

Estimated Sub-Total Project Cost \$11,818,700

Project Contingency \$ 1,181,870

Total Project Budget \$13,000,570

Multiple Matching Grant Opportunities (PartF, etc...)

Questions?