

PREFACE





Lewis Ginter Botanical Garden

Founded in 1984 in Richmond, Virginia, the relatively brief trajectory of Lewis Ginter Botanical Garden has been meteoric and unabated; its impact on many in our community powerful and lasting. In the years immediately following the Garden's incorporation, the rose beds cultivated by our original benefactor Grace Arents were long gone. The main house and outlying buildings, all suffering from age and neglect, were surrounded by 73 acres of untended fields. Payroll for the handful of staff was recorded in cursive in a ledger. The heart of the organization was already on display, though - passionate and visionary Board leaders, volunteers, and supporters with an eye for the unearthed potential of a community-oriented, non-profit botanical garden for the Richmond region.

After 32 years, the Garden stands at 82 acres, with 4 lakes, 15 distinct outdoor gardens encompassing 50 intensely cultivated acres, a conservatory and 5,500 unique genera of plants. Each year we teach, energize, and engage over 18,000 students in 850 education programs. Each year this cadre of identified learners is just a fraction of the 380,000 visitors who learn what a garden can mean for body and spirit as well as the mind. In recent years the Garden has been honored with inclusion in a number of top ten lists of botanical gardens in North America. For the 615 volunteers and 100 full- and part-time employees, the honors serve as spurs for continued commitment and effort.

For three decades Garden visitation has climbed continuously, encouraging community support for expanded gardens, improved infrastructure, additional educational and event spaces, and innovative events and programs. Numbered among these latter are growing community engagement initiatives coalescing under the umbrella of the Garden inspired social movement Beautiful RVA. In 2015, Madeline, Roy, and Elizabeth Cosby deeded their 80-acre Hanover County farm to the Garden while maintaining life rights to the property. The renamed Lewis Ginter Nature Reserve features over 1,800 varieties of azaleas and 300 varieties of rhododendrons in gorgeously designed and maintained beds in the midst of managed fields and forests. The close cooperation of this visionary family has allowed Garden staff to staff the Reserve and learn from its owners even before the Garden takes full possession.

The following Garden expansion master site plan integrates existing gardens, programs and facilities along with updated strategic initiatives to incorporate this new branch site, expand collections, add gardens and facilities, build capacity, provide new educational and horticultural opportunities, and become a "garden without walls" for our community. It pairs visionary thinking and hard-nosed business practices, quest amenities and the finest in horticulture practice, sanctuary and community engagement. The plan is the product of three years' work by Board leaders, staff members, key constituents, dedicated volunteers, and talented architects and landscape architects – three years' work that helps prepare us for the Garden's next three decades.

Shane Tippett, Executive Director

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The major construction program of Lewis Ginter Botanical Garden's 1995 Master Site Plan concluded in 2005, and since then the Garden has enjoyed extraordinary growth in plant collections, programs, activities, volunteer support, visitation, education, and engagement.

In response to increased community interest and support, this 2016 Master Site Plan charts a bold course for the Garden's future. The plan provides an overview of the Garden's dynamic nature and its evolving relationship with its students, guests, and community. It provides organizing themes and an overarching direction for the next three decades.

The following pages include detailed analyses of existing conditions and requirements, documented results of staff initiatives and stakeholder charrettes, introductions to the distinct garden regions, and a conceptual Master Site Plan for the entire Garden, and four specific new projects identified as priorities for the Garden's near-term future.

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ACKNOWLEDGEMENTS

THANK YOU

The Lewis Ginter Botanical Garden Master Site Plan was completed with 3north as our partner, leveraging the 2014 conceptual site plan, historical chronology, and physical inventory work. We collaborated to link the final Master Site Plan to the Garden's Strategic Planning Process and to 3north's IQ (Intangible Qualities) Process, which captures the "essence" of an organization.

The results of this intensive collaborative effort were stellar, manifesting into many direct tangible outcomes for the Garden. And perhaps just as importantly, the entirety of our efforts helped build excitement, enthusiasm, and positive energy among the Garden's staff, Board members, and volunteers about the future of the Garden and its relationship with the Community.

Many thanks to 3 north, the Garden's staff, the Garden's Board of Directors, all of our IQ Charrette participants and speakers, and to the numerous volunteers who provided input, support, and feedback along the way.

It is with great pride I offer to you, the Lewis Ginter Botanical Garden Master Site Plan.

Sincerely,

Debut g. Stolenberg

Deborah J. Wolenberg Vice President, Board of Directors Planning Committee Chair











REGIONAL CONTEXT



Population centers in the Richmond metropolitan area stretch broadly north to south along the break in the Piedmont that creates the falls of the James River. The route from Hanover County through the independent municipalities of Henrico County, the City of Richmond (straddling the James River), Chesterfield County, and Petersburg is easily navigated along interstate highway I-95.

Benefactor Grace Arents' beloved Bloemendaal Farm, located in a then rural section of Henrico County, was bequeathed to the neighboring City of Richmond for a "public park and botanical garden" in 1926, a gift that was realized in 1968 and became effective with the incorporation of the Garden in 1984. The City of Richmond owns the original land and buildings, the Grace Arents Trust owns the expanded property and accompanying structures, and Lewis Ginter Botanical Garden, Inc. owns all other leasehold improvements and operates the entire Garden.

The 80-acre Lewis Ginter Nature Reserve, a branch site located a half hour WNW of the Garden in rural southwestern Hanover County, was deeded to the incorporated Garden in 2015. The Garden will take possession of the Reserve on the passing of the last sibling.

The Garden and Reserve seek to serve the community comprising the entire Richmond metropolitan statistical area and its immediate neighbors.



REGIONAL CONTEXT

MASTER SITE PLANNING

PRIMARY GOALS

The goal of this process was to plan and design a master site plan that integrated existing gardens, programs and facilities with strategic initiatives to expand collections, build capacity, and provide interactive educational opportunities for guests of all ages and abilities. To meet this goal, the Master Site Plan was designed to meet the following criteria:

- Produce a plan that physically embodies the "Unearthing Our Potential" Strategic Plan.
- Create an appropriate balance between vision and practicality in the whole garden and within each part.
- Reveal and uphold the inherent sense of identity found in the whole garden as well as the individual parts.
- Create site specific goals for Lewis Ginter Nature Reserve and the Garden that are unique to each place, but complementary to each other.
- Achieve a holistic, integrated approach to planning with a focus on effective and inspirational horticulture, education, and community engagement.







PROCESS

Throughout the site planning process, a number of key features and rules were established to ensure that the overarching goals were achieved. Among them was the necessity to respect the Garden's history and its many prior successes. The process also sought to:

- Utilize the 2013-2014 planning efforts including the Conceptual Site Plans, Historical Chronology, and Physical Inventory.
- Ensure design solutions that are mission and program driven.
- Execute the IQ (Intangible Qualities) Process and utilize the resulting IQ Master Plan.
- Engage and communicate with the staff and stakeholders throughout the process.
- Balance of top-down and bottom-up planning.
- Link the Master Site Plan to the Strategic Plan.
- Identify and develop actionable Priority Project Case Statements.

DESIGN

Central to the design of the Garden is the tenet that guests would be oriented by Garden Character Regions – Streetscape, Park, Formal, Riparian, Agrarian, Woodland, Meadow, and Historic. This design philosophy carried throughout the Garden, and was reiterated within the following design features:

- Connecting existing gardens with the undeveloped northern third of the Garden.
- Water is a continuous thread physically and symbolically.
- Clear regions and sub-regions define the spaces within the Garden, such as water, woodland, and meadow.
- The "back of house" functions of the Garden (for example, horticultural operations like composting) are brought forward and celebrated.
- Timeless and durable approaches are used instead of the current trends and fashions.

PLANNING

THEMES THROUGHOUT THE GARDEN



THEME OVERVIEW

The themes outlined in this plan timelessness, community, and awakening are concepts that help to guide the Garden as it continues to grow and develop. These three themes are not mutually exclusive or ordered by importance; rather, they engage and inform one another, and together act as the foundation for the future of Lewis Ginter Botanical Garden.

Elements of all three themes will appear in varying amounts and in varying locations throughout the Garden, at times together and at other times separately. These themes build upon the ethos, characteristics, and mission of the Garden. Together with specific goals and objectives of the latest strategic plan, they become the standards by which design and decision-making are evaluated.

TIMELESSNESS

A GARDEN OF ALL AGES



- Engage visitors of all ages, ability levels, and backgrounds by providing a familiar and comfortable environment
- Explore its unique local and regional contextual landscape identity
- Tell the stories of Richmond's interwoven plant and human history
- Innovate to create timeless designs and experiences that incorporate sustainable technology and practices
- Explore the history of the community, the Garden, and the people associated with it Grace Arents and her focus on healing and philanthropy through the innovators of today and tomorrow
- Open the horticultural operations to Garden guests to showcase process and ingenuity

COMMUNITY

A GARDEN FOR CULTIVATING COMMUNITY



- Forge meaningful relationships with community organizations and serve as a resource
- Continually strive for greater inclusivity and diversity in guests, members, volunteers, staff, partnerships, programs, and engagement
- Move beyond the Garden's real and perceived boundaries by removing barriers, both physical and social, that will allow the Garden to be open to everyone
- Facilitate community conversations that seek to act as a bridge between different communities and connect people to the mission of the Garden
- Foster authentic learning experiences that connect people through plants
- Instill a sense of pride and ownership among all of Richmond's communities

AWAKENING

A GARDEN OF AWAKENING: MIND, BODY, SPIRIT



- Embrace ecological and natural systems and showcase them in the Garden
- Embrace the romantic elements and experiences of the Garden
- Encourage healthy living and nature-inspired lifestyles through educational experiences in the Garden
- Embrace the spiritual renewal that can come from nature and beauty and create moments of pause and reflection
- Redefine beauty to expand on the idea of formal and manicured gardens to create authentic and restorative experiences
- Create opportunities for sensorial exploration and allow visitors to experience the Garden from unique perspectives



GARDEN CHARACTER REGIONS



INTRODUCTION

Lewis Ginter's campus can be broken down into eight distinct garden regions based on garden characteristics and collections. Each one feels and functions like a special mini-campus within the whole. Together, these regions provide for a multitude of visitor experiences, from a hands-on tour of the Community Kitchen Garden to a quiet and meditative stroll along the Garden's woodland baths. This diversity allows visitors to return time and again to both discover new and dynamic experiences as well as revisit their favorite Garden spaces.

Each Garden Region has its own distinct identity and branding which will be carried throughout the Master Site Plan book.



STREETSCAPE

The area along Lakeside Avenue will become an inviting, active space that announces the presence of the Garden in the community. Visitors will be invited into the Garden by street trees, artful seasonal signage, and a community gateway.





PARK

Upon entering the Garden, visitors will be greeted by a contemporary, ecological, and sustainable park-like setting. Innovative stormwater management practices will be combined with interpretive garden elements to curate a dynamic experience that is both modern and timeless.





FORMAL

The Formal region encompasses the series of garden rooms comprising the Central Garden. It is characterized by formal gardening practices, classic glass and brick architecture, garden structures from a number of specific traditions, and immaculate maintenance.





RIPARIAN

The Riparian region includes all aquatic elements within the Garden - the streams, lakes, man-made bodies of water, water features, and riparian habitats - creating a spine that connects all regions of the Garden within the greater watershed.





AGRARIAN

The productive and innovative areas of the Garden include the Community Kitchen Garden and the new Center for Horticultural Excellence, which showcase the efficiency of the back of house operations at the Garden.





WOODLAND

The Woodland region encircles the Garden and provides privacy, wildlife habitat, and shady retreats. Emphasizing native plant collections, the Garden's woodland areas exemplify geographical integrity for our region.





MEADOW

This expansive region is home to many sun-loving wildflowers, perennials, and native grasses. Endless learning opportunities for all audiences include plant and insect life cycles, delicate food webs, and plant pollinator interactions.

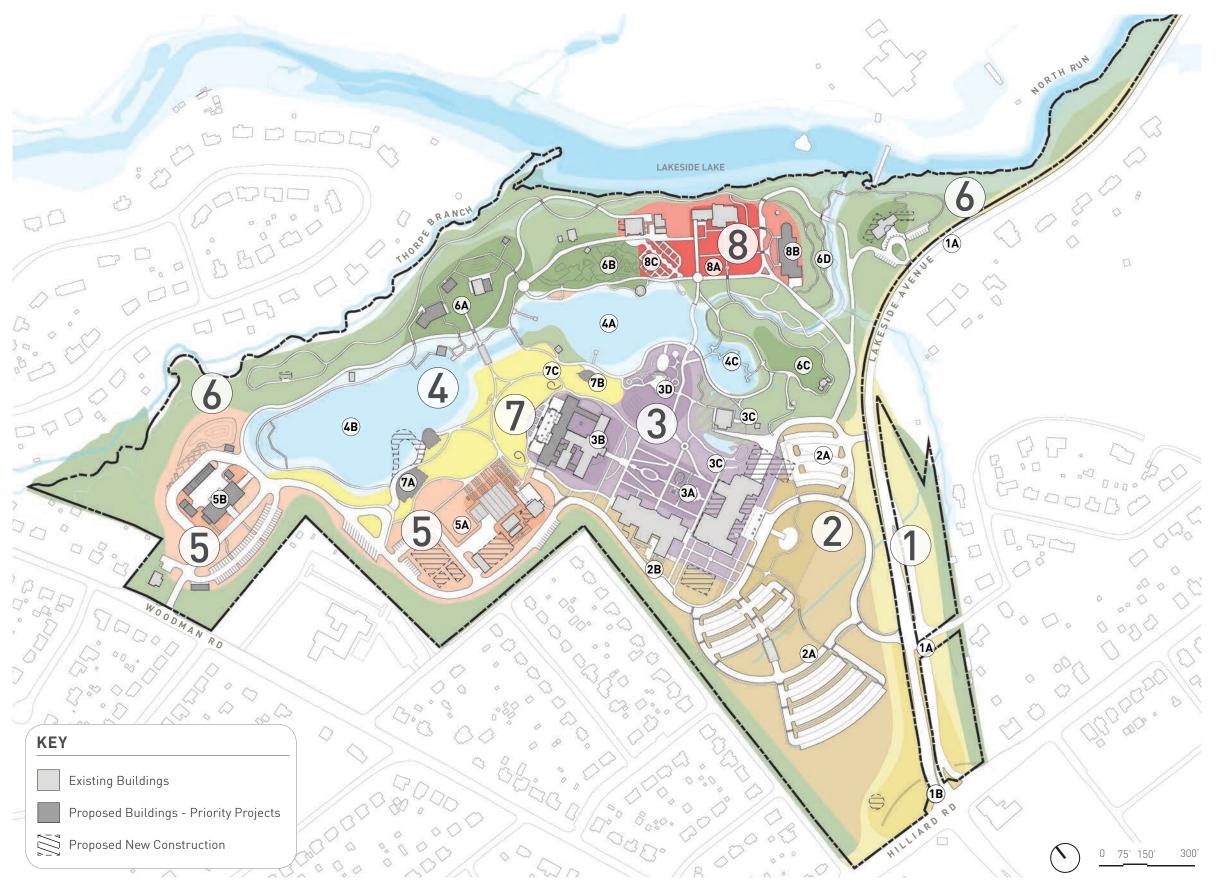




HISTORIC

At the heart of the Historic region is Bloemendaal House and Grace Arents Garden, which celebrates the historical narrative and precedent of the Garden. Victorian cottage garden styles and plant collections provide precedent for the formalized gardens in this region.





GARDEN CHARACTER REGIONS

(1)

STREETSCAPE

• PEDESTRIAN • SUSTAINABLE • CANOPY

- 1A Lakeside Avenue
- 1B Garden Gateway



PARK

• WELCOME • CONTEMPORARY • ECOLOGIC • NATIVE

- 2A Parking Lots
- 2B Morton Native Plant Garden



FORMAL

• AXIAL • SHOWCASE • BRIGHT • ARCHITECTURAL

- **3A** Central Garden
- **3B** Conservatory
- **3C** Asian Valley
- **3D** Cochrane Rose Garden



RIPARIAN

AQUATIC • NATURAL • CONNECTION • ECOSYSTEM

- **4A** Sydnor Lake
- 4B Irrigation Lake
- **4C** West Island Garden



AGRARIAN

• ORGANIZED • INNOVATIVE • PRODUCTIVE • EDIBLE

- **5A** Community Kitchen Garden
- **5B** Center for Horticultural Excellence



WOODLAND

• REGENERATIVE • NATURAL • EXPERIENTIAL • HABITAT

- **6A** Woodland Center
- 6B Children's Garden
- **6C** Flagler Garden
- 6D Woodland Garden



MEADOW

• EXPANSIVE • NATIVE • DYNAMIC • WILDFLOWER

- **7A** Meadow Pavilion
- **7B** Meadow Summerhouse
- **7C** Anderson Wildflower Meadow



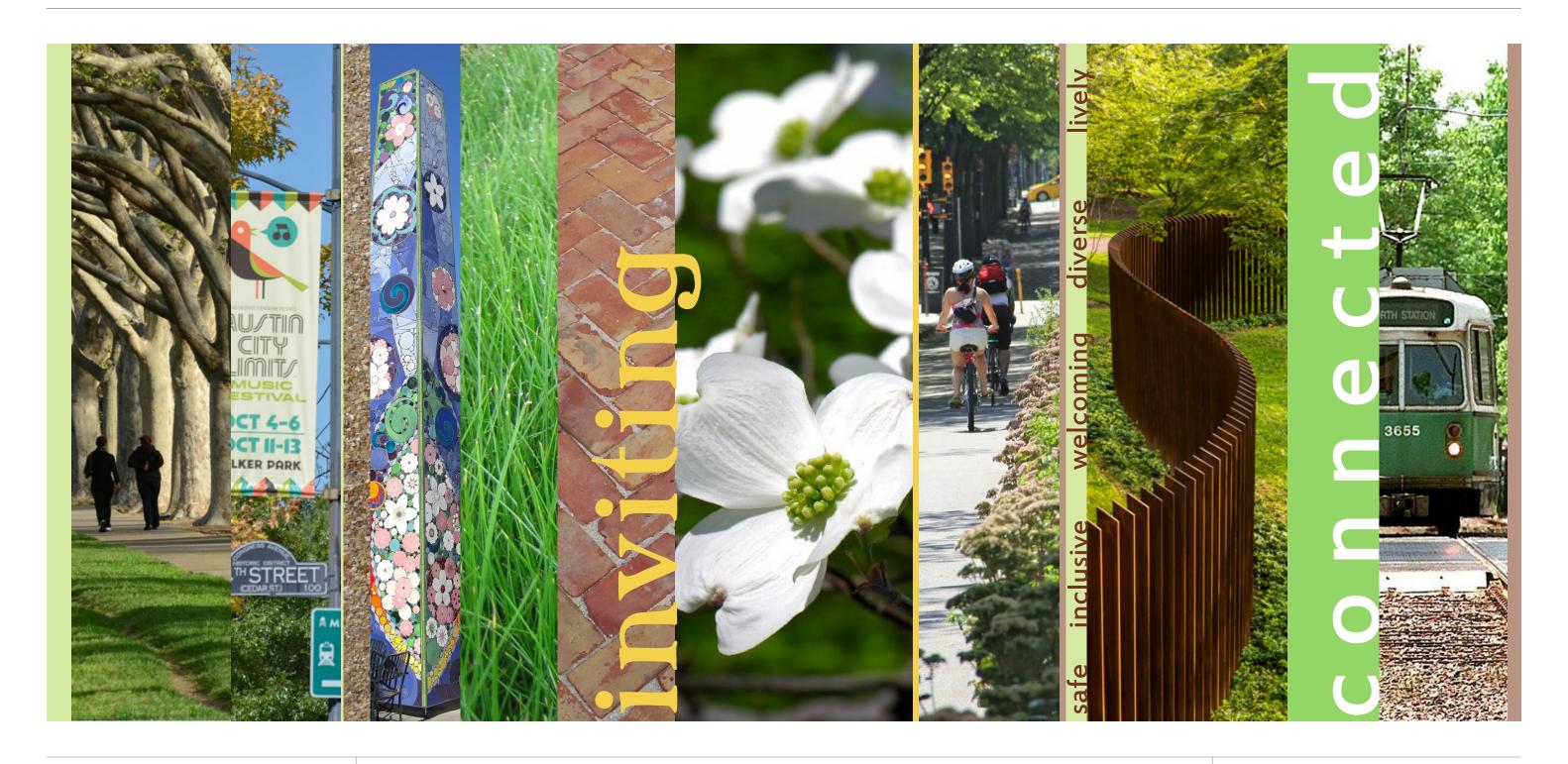
HISTORIC

• PEACEFUL • ROMANTIC • ORDERED • HEIRLOOM

- 8A Grace Arents Garden
- **8B** Vale House
- 8C Farm Garden



STREETSCAPE





STREETSCAPE

GARDEN CHARACTER REGION



STREETSCAPE

- Streetscape Corridor Improvements
- Neighborhood Connection
- Transit Connectivity
- Garden Community **Identity**



A Garden Gateway, full of street trees and artful signage along the intersection of Lakeside Avenue and Hilliard Road, begins the process of inviting the community to their Garden. The entire length of Lakeside Avenue from Hilliard Road to the bridge at the easternmost point of the property will be enhanced with plantings that reflect the character and special plant collections within the Garden. Views into the Garden will be curated along the corridor, while also creating and maintaining a buffer that provides privacy and a sense of seclusion from inside.

Buffer improvements will also include the phased removal of invasive plants and noxious weeds on both sides of Lakeside Avenue, and native plants and adapted natives will be planted over time to improve the water quality, soil health, and wildlife habitat along the corridor.



This welcoming entry will showcase the vast horticultural collections and encourage passersby to stop and explore while creating a beautiful and compelling front door to the Garden. New, permanent entry signage will further announce the Garden's presence with the opportunity to incorporate artful signage that corresponds with seasonal events. To ensure access to the Garden for all, Lakeside Avenue improvements will incorporate multi-modal transportation elements such as dedicated bike lanes, bus and trolley stops, and safe crossings for pedestrians.

STREETSCAPE

GARDEN CHARACTER REGION



STREETSCAPE CORRIDOR IMPROVEMENTS

The entire length of Lakeside Avenue from Hilliard Road to the bridge at the easternmost point of the Garden's property will be enhanced with plantings that reflect the character and special plant collections within the Garden. Views into the Garden will be curated along the corridor, while also creating and maintaining a buffer that provides privacy and a sense of seclusion from inside the Garden.

Buffer improvements will also include the phased removal of invasives and noxious weeds on both sides of Lakeside Avenue, and native plants and adapted natives will be planted over time to improve the water quality, soil health, and wildlife habitat along the corridor adjacent to the Garden.



NEIGHBORHOOD CONNECTION

Visual and physical connections between the Garden and its surrounding neighborhoods should be made, allowing the Garden to become more of a neighborhood amenity.



TRANSIT CONNECTIVITY

In keeping with the Garden's mission of community engagement and visibility, Lakeside Avenue improvements will incorporate multimodal transportation elements such as dedicated bike lanes, bus or trolley stops, and safe crossings for pedestrians.

An initiative for increasing the Garden's reach within the greater region will include advocacy for transit stop improvements that advertise the Garden through innovative plantings & bioretention areas along bus routes.



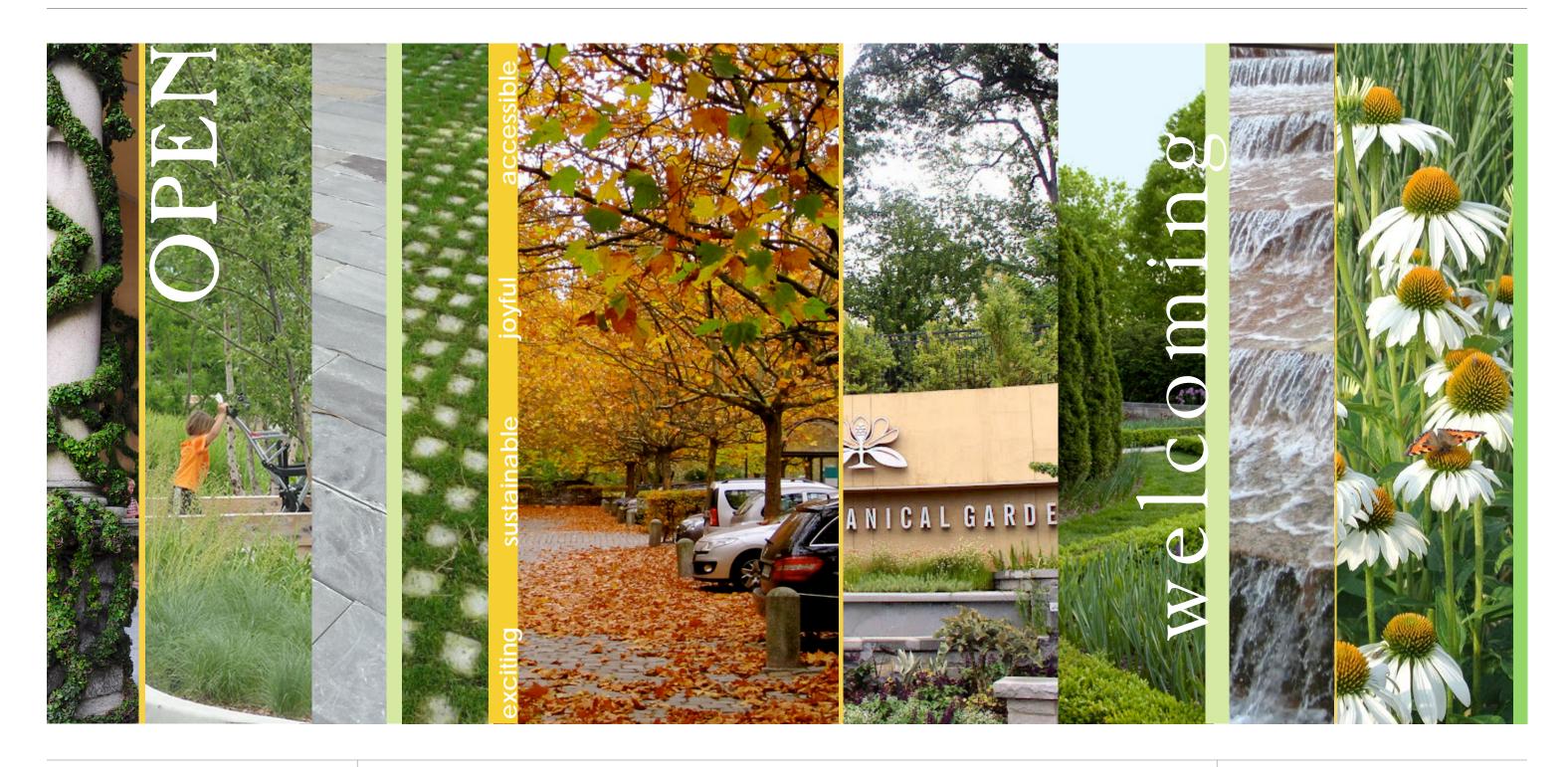
GARDEN COMMUNITY IDENTITY

Rather than creating a barrier between the Garden and the surrounding neighborhood, sculptural perimeter fencing will allow views into the Garden and draw people in. Such fencing becomes an artistic landscape element while also serving its functional role as a fence.





PARK



MASTER SITE PLAN KEY

- A Garden Gateway
- **B** Entry Circle
- **C** Water Garden
- Parking Areas
- **E** Festival Parking
- Roundhouse Pavilion
- **G** Morton Native Plant Garden
- H Robins Visitors Center

DETAIL PLAN KEY

- 1 Parking Kiosk
- 2 Parking Grove
- 3 Permeable Paving
- (4) Bioretention Area
- (5) Main Entry/Drop Off

KEY PLAN

PARK CHARACTER

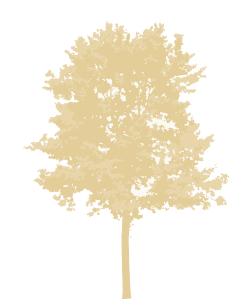
Upon entering the Garden, visitors will be greeted by a contemporary, ecological, and sustainable parklike setting. Innovative stormwater management practices will be combined with interpretive garden elements to curate a dynamic experience that is both modern and timeless.



0 37.5′ 75′

PARK

GARDEN CHARACTER REGION



PARK

- Wayfinding & Arrival Experience
- Innovative Stormwater Management
- Native Plantings
- Community Access



The entry of the Garden will function not only as a vibrant welcome to the Garden, but will also provide space for community events and educational opportunities. An open-sided Roundhouse Pavilion will provide an inviting spot for community groups and picnickers to gather outside of the ticketed areas of the Garden. The parking areas that lead to the Roundhouse Pavilion will provide park-like characteristics allowing vehicles to park among a grove of large canopy trees that provide shade and seasonal interest.



The existing open lawn at the Garden's entrance will be converted into a lower-maintenance, meadow-like lawn using native, adapted, and resilient grass mixes. This meadow will be used for overflow parking during large seasonal events or as event space for festivals and markets.

GARDEN CHARACTER REGION: PARK

PARK

GARDEN CHARACTER REGION



WAYFINDING & ARRIVAL EXPERIENCE

The guest experience at the transition into and through the Park region will encompass beautiful garden design, pristine maintenance of planting beds, obvious and intuitive flow patterns for pedestrians and vehicles, safe and secure parking, clear directional signage, and environmental graphics.

Views through the Park region into other garden spaces will be curated carefully to provide attractive glimpses of things to come and a beckoning call to the guests.



INNOVATIVE STORMWATER MANAGEMENT

Regenerative design will maximize site porosity for infiltration and vegetative cover to increase interaction of plants, soil, and water. Natural drainage patterns will be restored and measures taken to manage excess runoff volume and sediment during heavy rainfall events.

The effective, efficient, and attractive use of rain gardens, sediment filter ponds, permeable surfaces, and other visible and instructive measures will serve as examples for the large, diverse audience of Garden guests and members.



NATIVE PLANTINGS

Virginia native plants are a living collection of focus for the Garden. The Park region will demonstrate the benefits of these plants to the overall vitality of our local ecology, particularly with regards to the conservation of water and the preservation of native pollinators. It will also show guests how native plants can grace beautifully designed and aesthetically pleasing garden spaces.



COMMUNITY ACCESS

The entry of the Garden will function not only as a vibrant piece of the Garden as a whole, but will also provide space for community events and educational opportunities. A new Roundhouse Pavilion near the Garden Gateway will be open to the public to play host to music events, community gatherings, or simply a place to picnic.

The Park region provides a visual connection to the Garden to encourage visitors and local residents to experience the Garden on a daily basis.

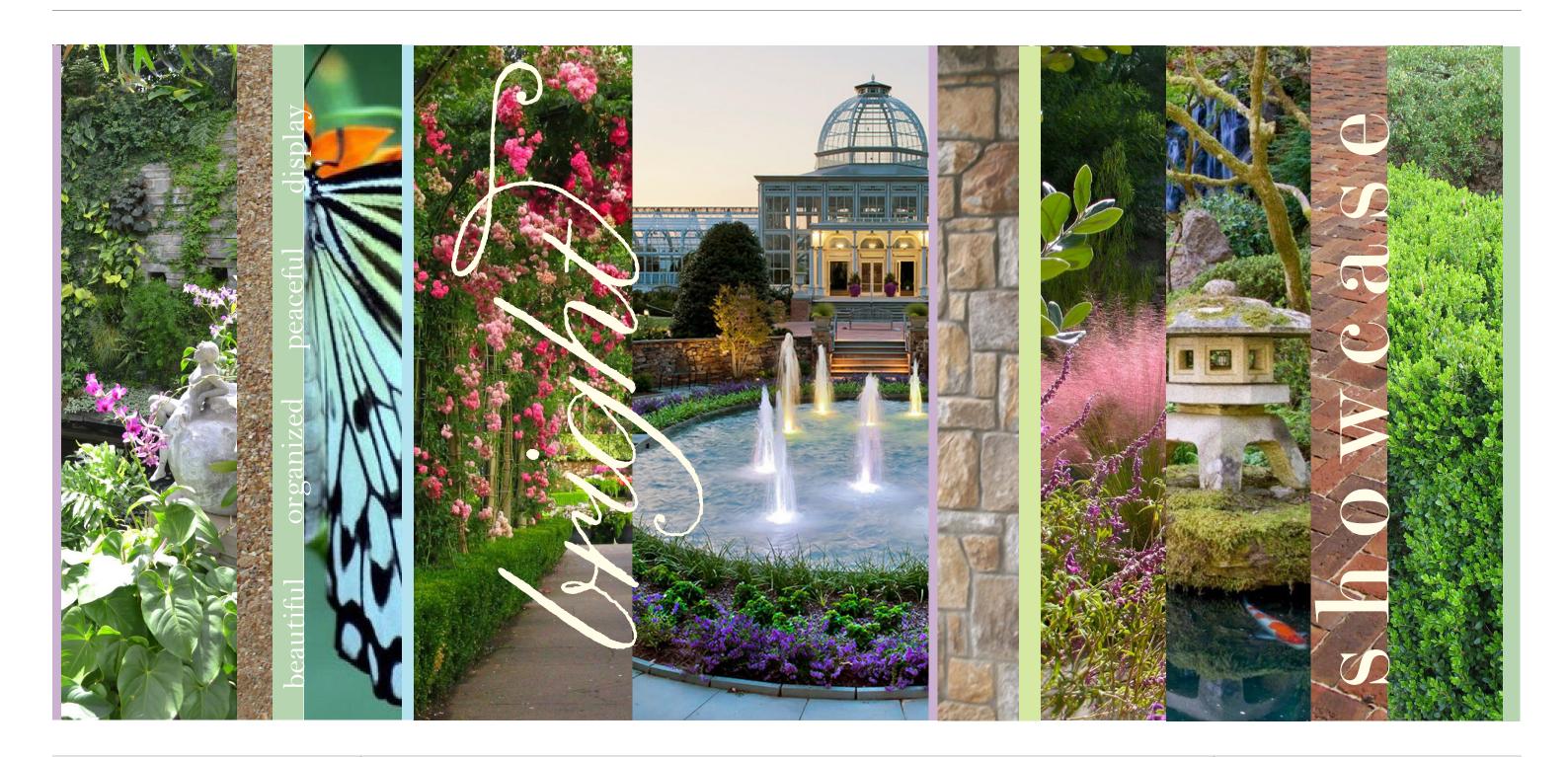


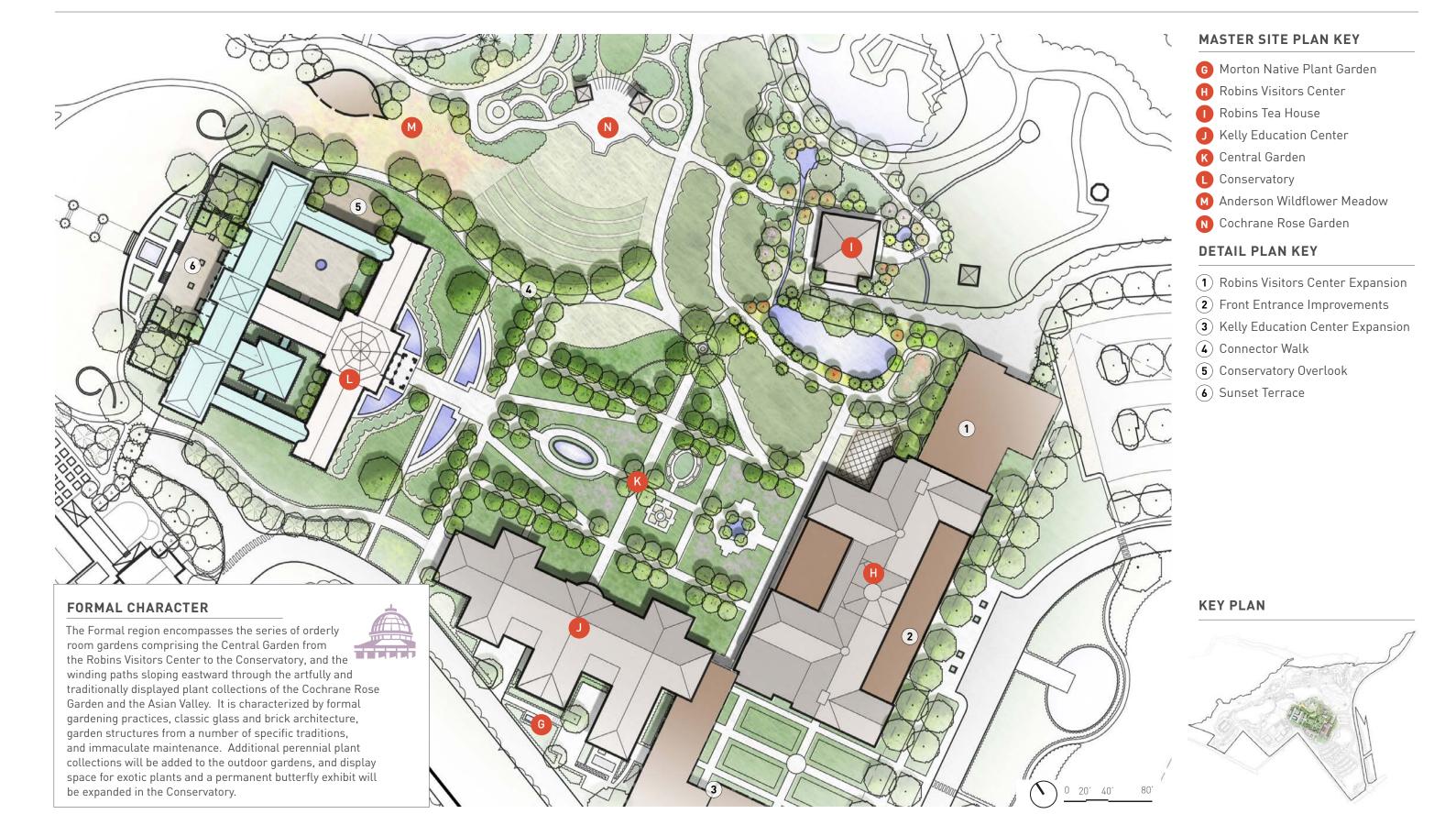
GARDEN CHARACTER REGION: PARK

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FORMAL





FORMAL

GARDEN CHARACTER REGION



FORMAL

- Conservatory Expansion (Priority Project on pgs. 103-109)
- Plant Collections (Indoor & Outdoor)
- Building Improvements
- Asian Valley



The Formal region encompasses the series of orderly room gardens and water features comprising the Central Garden from the Robins Visitors Center to the Conservatory. They include the North Terrace and fountain, the Four Seasons Garden and frog fountain, the Bragdon Daffodil Garden, the Meditation Garden, the Healing Garden, the Fountain Garden, the Luck Garden, and the ornamental grasses and pools at the foot of the Conservatory.

The Conservatory displays the Garden's collection of exotic and tropical plants. Flowing eastward from the elevated platform of the Central Garden, winding paths wander down and through the artfully and traditionally displayed plant collections of the Cochrane Rose Garden and the Asian Valley.



Both indoor and outdoor gardens are characterized by formal gardening practices, classic brick and glass architecture, garden structures from a number of specific traditions, diverse native and exotic plant specimens, and immaculate maintenance. Additional perennial plant collections, highlighting both native and exotic specimens, will be added to the outdoor gardens, and display space for exotic plants and a permanent butterfly exhibit will be expanded in the Conservatory.

Pathways will be renovated over time to become more accessible, emphasis will be placed on the cultivation and care of specimen plants and evocative landscape designs within the bounds of formal design.

GARDEN CHARACTER REGION: FORMAL

FORMAL

GARDEN CHARACTER REGION



CONSERVATORY EXPANSION

The landmark Conservatory will expand to provide capacity for expanded tropical and Mediterranean plant collections, additional teaching space, improved pedestrian flow, and an appropriately sized year-round butterfly exhibit space. The expanded Conservatory will accommodate additional classes and tour groups, improved guest experience, separation between formal and informal learners, and day-time and evening events and activities in all four seasons.



PLANT COLLECTIONS

The Garden's plant collections of focus include Azaleas, Magnolias, Cornus, Sarracenia, Virginia native plants, and under the roof of the Conservatory, Orchids, Bromeliads, and Palms. The plants are highlighted and concentrated amidst other plant collections representing global and regional plant diversity. Beginning in the Formal region and extending through the entire Garden, expanded exterior planting space or conditioned area under glass will allow for better curation, demonstration, and education of the Garden's entire collection.



BUILDING IMPROVEMENTS

Existing structures have facilitated the execution of the Garden's horticultural and educational mission, enhanced the guest experience, and encouraged consistent growth in annual visitation. The Robins Visitors Center ultimately will require expansion to accommodate check-in of large numbers of guests, multiple simultaneous programs and activities, and increased dining and shopping.

The Kelly Education Center can be renovated to accommodate changing needs for classes, symposia, and rental events. An additional structure, accessible to all between the Park and Formal regions, will facilitate expanded programmatic offerings and rental client opportunities.



ASIAN VALLEY

Featuring plants native to portions of Asia with climates compatible to Central Virginia, particularly sections of China, Korea, and Japan, the garden beds in the Asian Valley highlight distinct and beautiful specimens artfully arranged and maintained to encourage reflection and appreciation for the harmony of nature. The design of the beds will be crafted to emphasize striking plant combinations, and the plantings will be diversified intentionally to expand awareness and understanding of these exotics.

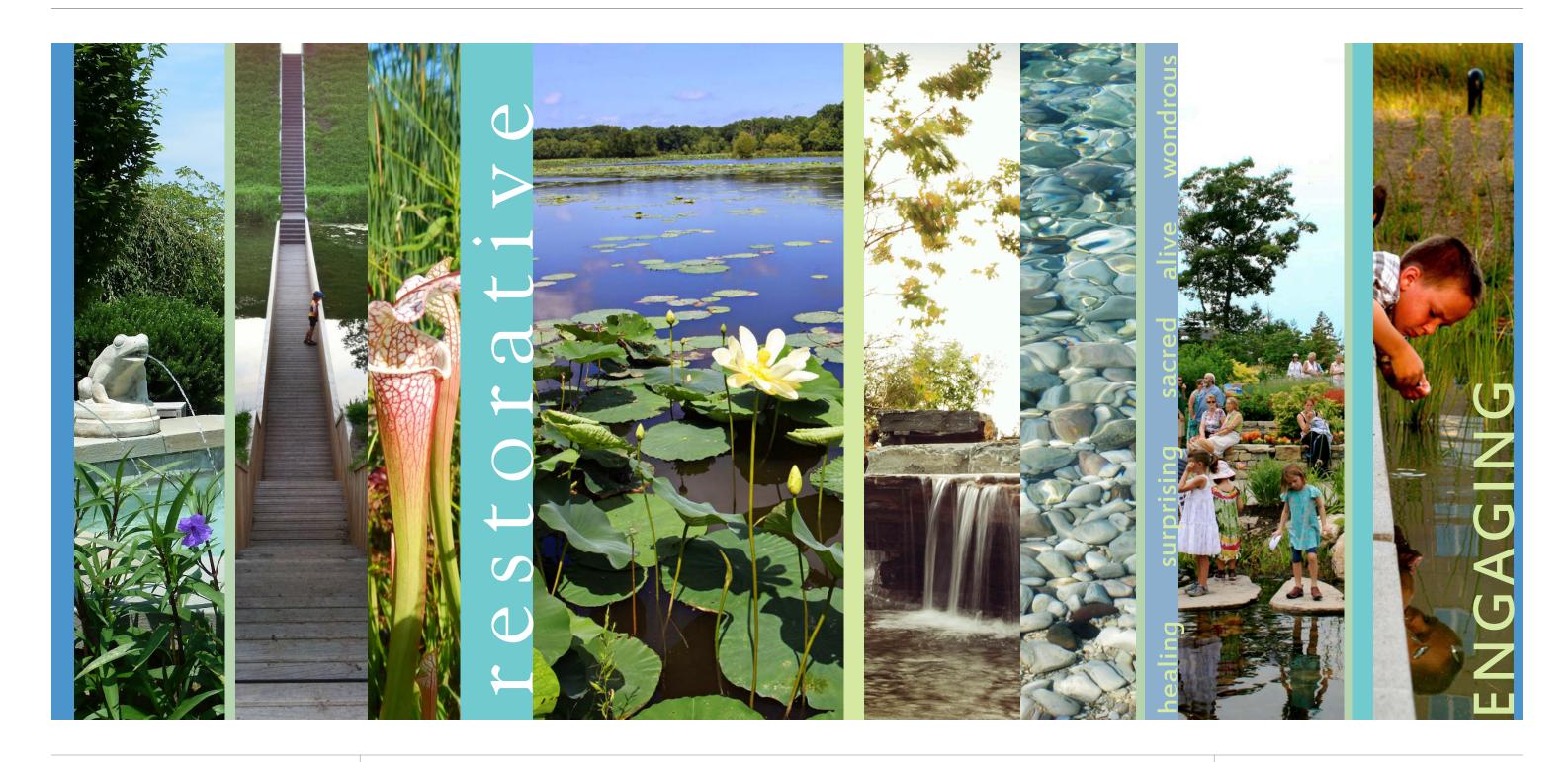
The Asian Valley also shares characteristics with the Woodland region, and appears in both character regions in the Master Site Plan.



3NORTH



RIPARIAN



(8) LAKESIDE LAKE IRRIGATION RIPARIAN CHARACTER Three intersecting streams bordering and crossing the original Bloemendaal Farm have been augmented since 1990 by four interconnected lakes that add visual interest to the landscape, broaden plant variety, capture and conserve water, irrigate the outdoor gardens, and facilitate education about the interface of land and water and proper stewardship of water. By adding additional formal water features and landscape design changes that make the riparian areas accessible and informative to students and visitors, we will strengthen the understanding of the connectedness of plants and people to limited and vital water resources.

MASTER SITE PLAN KEY

- **C** Water Garden
- Woodland Garden

DETAIL PLAN KEY

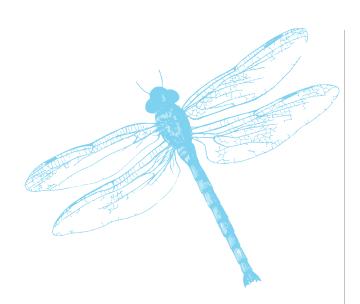
- 1 Bioretention Area
- (2) Asian Valley Water Garden
- (3) West Island Garden
- 4 Wetlands
- (5) Wetland Classroom
- **6** Buffer Improvements
- 7 Thorpe Branch Stream Monitoring
- 8 Lakeside Lake Shoreline Improvements
- **9** North Run
- (10) Woodland Stream
- **11** Lotus Bridge

KEY PLAN



RIPARIAN

GARDEN CHARACTER REGION



RIPARIAN

- Wildlife Habitat
- Watershed Stewardship
- Formal Water Features
- Watershed Education



Three intersecting streams bordering and crossing the original Bloemendaal Farm have been augmented since 1990 by four interconnected lakes: Sydnor Lake, West Island Garden Lake, Upper Asian Valley Lake, and the functionally titled Irrigation Lake (or Lake 22.) These artificial lakes add visual interest to the landscape, broaden plant variety, capture and conserve water, irrigate the outdoor gardens, and facilitate education about the interface of land and water and proper stewardship of water. Since the 2009 Strategic Plan and the concurrent Streams of Stewardship initiative, the Garden has emphasized the importance of water in the discussion and education of the plant world to our students, guests, and neighbors.



We will take advantage of landscaping, educational, and interactive opportunities around the Irrigation Lake, between that body of water and Sydnor Lake, and in the water courses that run through the Garden into Lakeside Lake. By adding additional formal water features and landscape design changes that make the Riparian region accessible and informative to students and visitors, we will strengthen the understanding of the connectedness of plants and people to limited and vital water resources.

GARDEN CHARACTER REGION: RIPARIAN

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RIPARIAN

GARDEN CHARACTER REGION



WILDLIFE HABITAT

Continuous threads of riparian and wetland habitat will be created and reinforced in order to provide healthy aquatic habitats for fish and wildlife. From turtles in West Island Garden to nesting water fowl in the Irrigation Lake, visitors will be able to enjoy and encounter a diversity of fauna within the Garden.



WATERSHED STEWARDSHIP

Throughout each region of the Garden, water plays an important role both visually and functionally. Stormwater management in the Garden will be addressed through a combination of low impact design strategies and best management practices to treat stormwater on-site, increase groundwater infiltration, and re-use water as much as possible.



FORMAL WATER FEATURES

The Garden currently harvests much of their water for irrigation by directing water to and storing water in the existing Irrigation Lake. Throughout the Garden, rain barrels, rain chains, and large-scale rainwater harvesting systems will showcase the innovative use of water within the Garden and educate visitors on ways to incorporate rainwater harvesting techniques on a residential scale.



WATERSHED EDUCATION

A new wetland acts as a transitional thread between the Woodland and Meadow regions, connecting Sydnor Lake with the Irrigation Lake. Within the Learning Village, a Wetland Classroom will provide educational opportunities for adults and children alike. Bridges, boardwalks, and rills will bring Garden visitors into the midst of the Garden's water systems.

Wetland Detail Plan

- 01 Irrigation Lake
- **02** Bridge Feature
- 03 Boardwalk
- **04** Wetland Classroom
- **05** Wetlands
- 06 Woodland Center
- 07 Sydnor Lake
- **08** Anderson Wildflower Meadow







AGRARIAN





AGRARIAN

GARDEN CHARACTER REGION



AGRARIAN

- Center for Horticultural Excellence (Priority Project on pgs. 69-77)
- Environmental Stewardship
- Apiary & Pollinator Plants
- Community Kitchen Garden



The Agrarian region includes the Community Kitchen Garden, the new Center for Horticultural Excellence, and operational back of house functions. The Community Kitchen Garden continues to be a source of fresh food for those in need through the FeedMore program, functions as a hub for corporate volunteer workdays, and provides service learning opportunities for youth. The recent addition of the Bob Stapleton and Keith Tignor Apiary educates all visitors about the importance of pollinators and their impact on the environment.



Expanded and enhanced programs will use the Community Kitchen Garden as a learning tool for issues of food security and safe and sustainable food production. With a focus on environmental stewardship, visitors will observe and learn innovative methods of best practices. As a resource for urban farmers, beekeepers, and landscape professionals, the teaching and growing spaces will demonstrate sustainable practices such as composting, soil science and integrated pest management through hands-on learning.

Our commitment to future gardeners and horticulturists continues through research opportunities in areas such as global plant diversity, new plant trials, and water quality testing and data collection.

AGRARIAN

GARDEN CHARACTER REGION



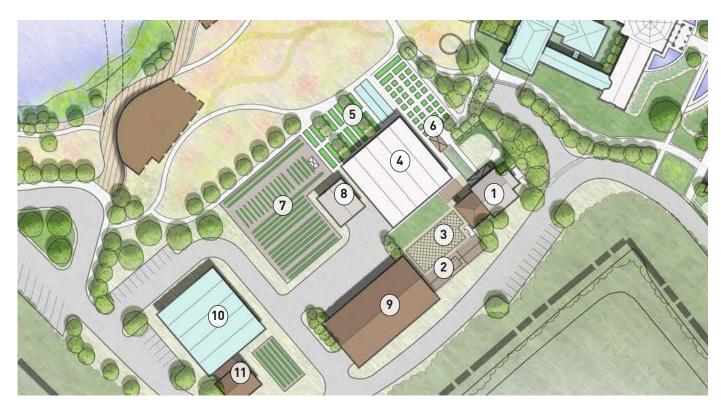
ENVIRONMENTAL STEWARDSHIP & EDUCATION

Thoughtful gardening methods demonstrated in the Community Kitchen Garden and measures taken by horticulturists to ensure water quality are two of the many ways we will encourage volunteers, members, and guests to look anew at their own homes and community. From the construction of buildings to the daily practice of environmentally sensitive horticulture, we will model and teach the most effective and efficient way to care for the natural world that sustains us.



APIARY & POLLINATOR PLANTS

The Garden will encourage a respectful and informed understanding of the role of bees, butterflies, and other pollinators and the importance of our choices in native plant material. We will demonstrate the human role in helping to maintain the complex and delicate network of interactions that sustain the plants that provide us air to breathe, food to eat, and comfort for the soul. We will foster the knowledge that the resilience of plant systems ultimately relies on the positive interaction with the world's insects and animals, and with us.



COMMUNITY KITCHEN GARDEN

Expanded and enhanced programs will use this garden as a learning tool for issues of food security and safe and sustainable food production. With a focus on environmental stewardship, visitors will observe and learn innovative methods of best practices. As a resource for urban farmers, beekeepers, and landscape professionals, the teaching and growing spaces will demonstrate sustainable practices such as composting, soil science, and integrated pest management through hands-on learning.

Detail Plan

- 1 Locbury House
- 2 Farm to Table Classroom
- 3 Outdoor Kitchen/Dining
- 4 Massey Greenhouse
- 5 Trial/Demonstration Beds
- 6 Stapleton-Tignor Apiary
- 7 Food Production Area
- 8 Hort Fort
- **9** Maintenance & Storage Facility
- 10 Green/Hoop/Lath House
- 11 Maintenance Shed

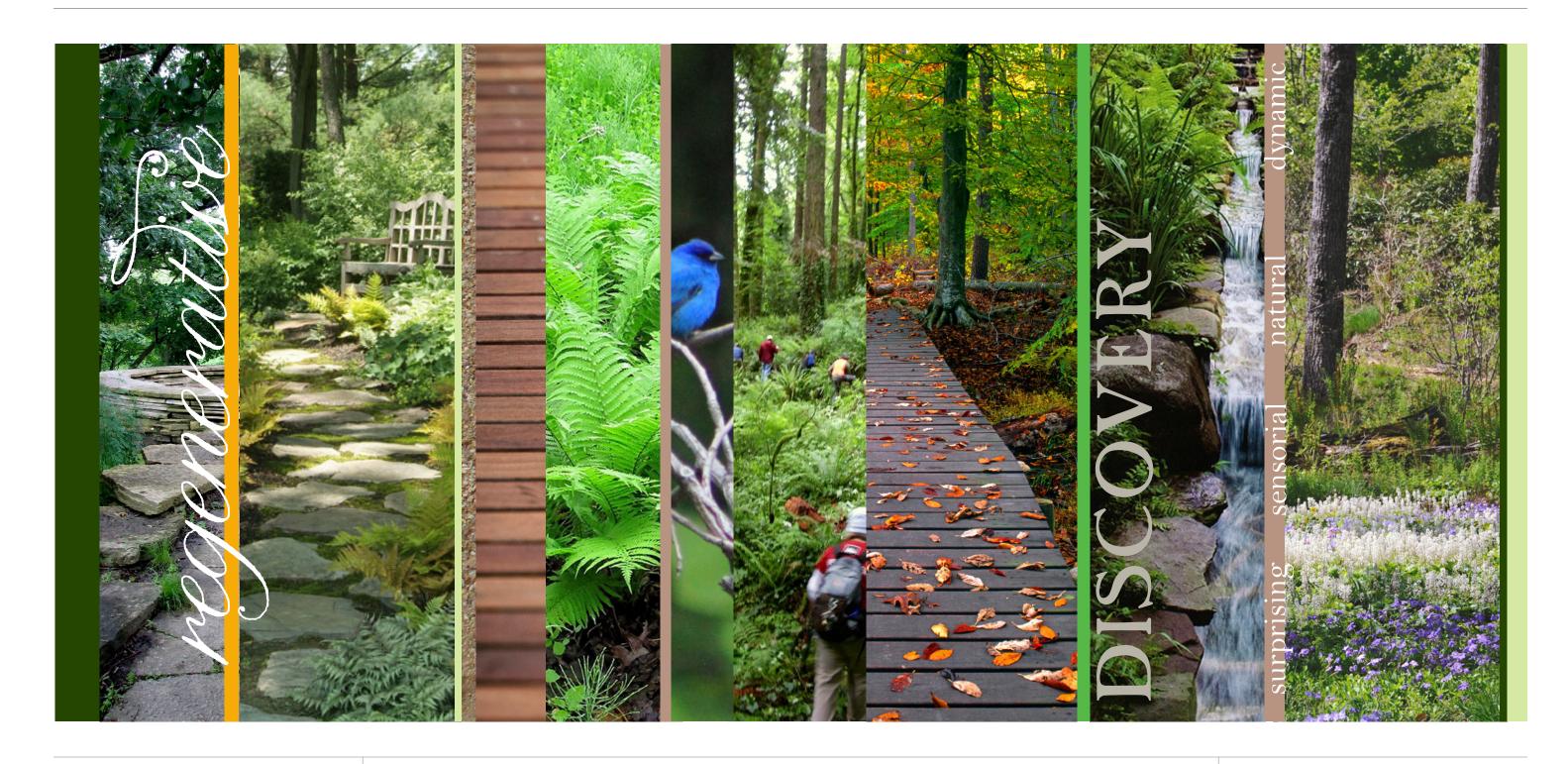


GARDEN CHARACTER REGION: AGRARIAN

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WOODLAND



MASTER SITE PLAN KEY Robins Tea House S Woodland Center Children's Garden W Vale House X Flagler Garden LAKESIDE LAKE Woodland Garden Z Lakeside House **DETAIL PLAN KEY** 1 Buffer Improvements (2) Large Tree Collection (3) Woodman Road House SYDNOR LAKE (4) Wildlife Monitoring Station (5) Nature Trails (6) Service Road IRRIGATION LAKE **KEY PLAN WOODLAND CHARACTER** The Woodland region encircles the Garden and provides privacy, wildlife habitat, and shady retreats. Emphasizing native plant collections, the woodland exemplifies geographical integrity for our region. Expanded programs include exposure to careers in horticulture and environmental studies, professional development for teachers, and nature-based after-school programs. 0 75' 150' 300

WOODLAND

GARDEN CHARACTER REGION



WOODLAND

- Learning Village: Woodland Center (Priority Project on pgs. 88-93)
- Asian Valley
- Arboretum
- Nature-Based Education
- Buffer Improvements

3NORTH



The Woodland region encircles the Garden and provides privacy, wildlife habitat, and shady retreats. Emphasizing native plant collections, the woodland exemplifies geographical integrity for our region. From the forest floor to the canopy this area is abundant with Virginia flora providing food and shelter for indigenous wildlife. Acting on behalf of nature, related programming from simple observation to applied ecology will help build empathy and bring awareness to nature's ecological services and importance of sustaining a healthy ecosystem.



The conditioned indoor spaces located in the Woodland Education Center and Woodland Barn lend themselves to expanded year round programing for both children and adults. Serving a broad range of audiences, these multi-purpose spaces include a wet lab, indoor/outdoor kitchen, and media center. Expanded programs include exposure to careers in horticulture and environmental studies, professional development for teachers, and nature-based after-school programs. These spaces also provide expanded evening and weekend options for adult education classes, seminars, tours, and workshops.

WOODLAND

GARDEN CHARACTER REGION



ASIAN VALLEY

Carefully chosen and cultivated specimen trees from Asia create the overarching framework for this garden's display of plants from half a world away. The woodlands will flow away from this area by carefully adding and integrating native trees of similar characteristics as the landscape shifts towards the second growth Virginia woods that flowed through Bloemendaal Farm at the Garden's founding.

The Asian Valley also shares characteristics with the Formal region, and appears in both character regions in the Master Site Plan.



ARBORETUM

The catalog of trees maintained and introduced at the Garden will complement the specimen trees and woods at Lewis Ginter Nature Reserve, creating a comprehensive collection of native and exotic trees that will inform members and guests of the scope and variety of these complex organisms that are equal parts large-scale environmental engines and deeply moving inspiration.



NATURE-BASED EDUCATION

Nature Trails weave throughout, allowing visitors to experience a range of spaces within the Woodland region. These trails vary in difficulty: some follow easy grades that don't stray far from the developed areas of the Garden while others wind up and down the hillsides and stream valleys in the Garden.



BUFFER IMPROVEMENTS

Guests and neighbors first apprehend the Garden at its periphery of encircling woods. Careful pruning and thinning of existing woods to take advantage of engaging sightlines, introduction of select exotic trees, and enhanced maintenance will improve the visual appeal for visitors on their arrival. We will announce subtly the presence of a botanical garden by demonstrating at our borders how inventive and artistic horticultural practices can make the natural world more accessible.





MEADOW





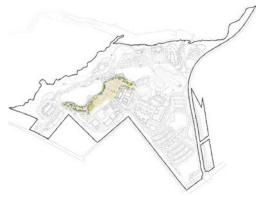
MASTER SITE PLAN KEY

- Conservatory
- M Anderson Wildflower Meadow
- Community Kitchen Garden
- Bus Drop Off
- R Meadow Pavilion

DETAIL PLAN KEY

- 1 Entry/Welcome Area
- 2 Boardwalk
- 3 Riparian Meadow
- (4) Meadow Classroom
- (5) Meadow
- **6** Main Pathway
- (7) Meadow Terraces
- 8 Sunset Terrace
- 9 Meadow Summerhouse
- (10) Streb Gazebo
- (11) Wetlands

KEY PLAN



MEADOW

GARDEN CHARACTER REGION



MEADOW

- Learning Village : Meadow Pavilion (Priority Project on pgs. 82-87)
- Native & Pollinator Plant Collections
- **Green Roof Showcase**
- Riparian Meadow
- · Anderson Wildflower Meadow



The Meadow region starts at the Anderson Wildflower Meadow and stretches to the new Meadow Pavilion. This expansive region is home to many sun-loving wildflowers, perennials, and native grasses. Birds, butterflies, and other pollinating insects inhabit the hillside meadow searching for food, nectar, and host plants. Pathways throughout allow for close-up observation of an eco-system full of life. Endless learning opportunities for all audiences include plant and insect life cycles, delicate food webs, and plant and pollinator interactions.



A safe and central location for group arrival, the Meadow Pavilion provides indoor and covered spaces to orient students. The building includes a gallery, gathering space, restrooms, and a distribution point for hundreds of students daily. Students receive an orientation then quickly embark on active garden explorations ranging from wild crafting to citizen science.

MEADOW

GARDEN CHARACTER REGION



NATIVE & POLLINATOR PLANT COLLECTIONS

Meadows are ideal settings to display and discuss the importance and attractiveness of native plants to the ecosystem of pollinating insects, birds, and other animals. Students and quests will have a chance to observe and closely study the interaction between plants and bees while at the same time enjoying a wide vista of the broader landscape, providing a sense of intimacy in a world of grandeur.



GREEN ROOF SHOWCASE

A green roof system on the Meadow Pavilion and Meadow Classroom highlights a new level of architectural sustainability at the Garden. Seamlessly blending landscape and architecture, the green roof rises out of the natural topography of the site to encapsulate the Pavilion. The green roof uses native meadow species, providing both habitat and visual interest throughout the year.



RIPARIAN MEADOW

Along the edge of the Irrigation Lake and the Riparian region, the meadow begins to take on characteristics of the shoreline. Native plants that would be found along open streams in Virginia's tidal wetlands, educate visitors about the use of native plants for Riparian Buffer health, as well as the diversity of plants that occur in meadows and how they change throughout the year.



ANDERSON WILDFLOWER MEADOW

Many Garden guests have few opportunities to experience open meadow landscapes - seeing butterflies and bees dance across a field, running a hand through waist-high grasses, observing the seasonal change and growth of meadow plants through the year.





HISTORIC



LAKESIDE LAKE HISTORIC CHARACTER At the heart of the Historic region are the Bloemendaal House and Grace Arents Garden, which celebrate the historical narrative and precedent of the Garden. Victorian cottage garden styles and plant collections provide the foundation for the formalized gardens in this region. 0 20' 40'

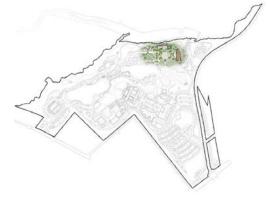
MASTER SITE PLAN KEY

- Children's Garden
- U Grace Arents Garden
- V Bloemendaal House
- W Vale House
- Woodland Garden

DETAIL PLAN KEY

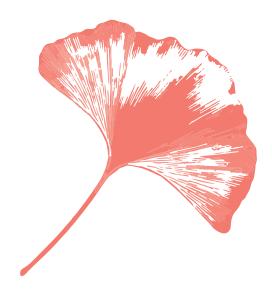
- 1 Expanded Bloemendaal Gardens
- **2** Lace House
- (3) Rotunda
- (4) Service Area
- (5) Main Entry
- **6** Balcony
- (7) Lawn Terrace
- (8) Farm Garden
- (9) Greenhouse
- **10** Carriage House
- (11) Bulb House
- (12) Service Road

KEY



HISTORIC

GARDEN CHARACTER REGION



HISTORIC

- Vale House (Priority Project on pgs. 95-101)
- "Centering" Bloemendaal House
- Grace Arents Garden
- Farm Garden

3NORTH

· The Arts



Bloemendaal House and the Grace Arents Garden are living legacies of the Garden's history and foundation. The original 1895 Lakeside Wheel Club forms the first floor of the expanded House, used as a residence until 1968. For a number of years the building hosted activities of the Richmond Bureau of Parks and ultimately the office of the Richmond Horticultural Association.

When the Garden incorporated in 1984, Bloemendaal House served many purposes: rental and classroom space, library and archives, herbarium, visitors center, gift shop, plant display space, offices, storage closets, and principal guest attraction. The Grace Arents Garden, immediately in front of the House, was restored by the Garden Club of Virginia in 1990, and is a gracious reminder of the life, work, and passion of our benefactor.



The historic heart of the Garden will be revitalized as the Grace Arents Garden is extended up to and around the House, with easy and available paths through Victorian style gardens, from the Gazebo to the shore of Lakeside Lake. Recognition of our history and the support of our community through the decades will be folded into the choice of plantings, garden structures and uses, and interpretive signage. The construction of the Vale House will permit year-round enjoyment of this seminal garden and adjacent Woodland Garden by students, Garden members and rental guests.

Bloemendaal House, now freed from periodic client activity, will be renovated and repurposed in accordance with a wide array of possibilities for reinterpreting our past and explaining the role of horticulture to future generations.

GARDEN CHARACTER REGION: HISTORIC

HISTORIC

GARDEN CHARACTER REGION



"CENTERING" BLOEMENDAAL HOUSE

Historic Bloemendaal House was the center of activity for Grace Arents' Bloemendaal Farm and for the Garden itself in its first decade. Currently it is relegated to the periphery of an increasingly active botanical garden, limited in its landscaping possibilities and interior use by necessary administrative functions and periodic rental events. By moving the event functions to the Vale House, space in and around the House can be reconsidered. The historic home will resume its place in the heart of an expanded legacy garden. Its interior space will be freed for renovation and re-interpretation, returning Bloemendaal to a central place in the daily guest experience.



GRACE ARENTS GARDEN

Lovingly restored through the generosity of the Garden Club of Virginia in 1990, and tended by the hands of countless volunteers and staff members since, the garden is a tribute to our benefactor and a reminder of an elegant time in garden design and appreciation. The garden will be extended to wrap around Bloemendaal House, incorporate the Friendship Garden and tie into the Wildside Walk and Farm Garden, inviting guests to move easily up to and around the historic house, to views of Lakeside Lake and the bordering woods.



FARM GARDEN

The Jane Quinn Saunders Farm Garden echoes a time when Grace Arents actively pursued and promoted improved agrarian practices and addressed nutrition issues for urban children on her Bloemendaal Farm. The garden will be integrated with the expanded Grace Arents Garden. The interpretation of Grace's work will be placed in the context of current and future initiatives, local and global, for healthy and sustainable farm practices.

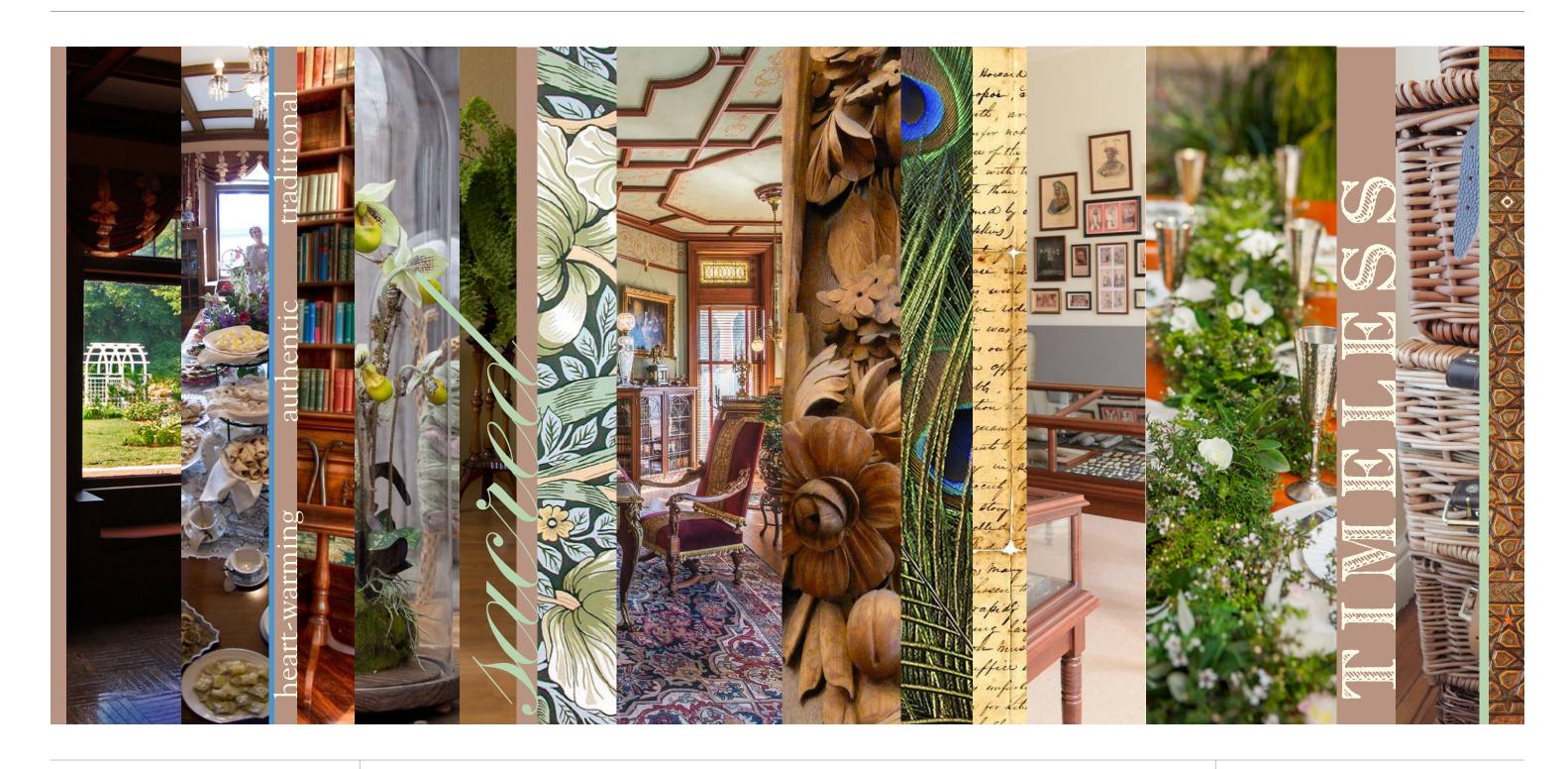


THE ARTS

Efforts to engage with our community, demonstrate our horticultural and educational mission, and tell our history have been accelerated by hosting gatherings, celebrations, and concerts that form a community at the Garden. Periodic and popular events featuring performing artists and musical acts will be expanded to fully utilize the extended garden areas, repurposed house, and new Vale House.



BLOEMENDAAL HOUSE



BLOEMENDAAL HOUSE



INTERIOR RESTORATION

Bloemendaal House will be renovated to ensure its continued viability through the second century of its life. Recent work made possible by generous donors to upgrade building mechanicals and protect the envelope of the building has allowed time to plan a thorough renovation. The construction of the Vale House will enable Bloemendaal House to be fully integrated into the daily guest experience as a destination and programming resource.



THE HISTORY OF GARDENS

Structural restoration, signing, and programming of the House will contribute to our identity of place. The unique history of the Garden will be interpreted in light of our region's progress since the late 19th century and within the context of the story of American botanical gardens in general and their contributions to the growth and vitality of their communities.



EVENT SPACE

The reinterpreted historic house will become a signature addition to events staged in the expanded Grace Arents Garden and Vale House. For patron activities and other special events it will be the visible and central symbol of the Garden's history and mission.



OFFICE/ADMINISTRATIVE SPACE IMPROVEMENTS

Expanded facilities for educational and group programming in the Learning Village and Vale House, improved information technology, and upgraded infrastructure will permit a better utilization of all three useful floors of the House. Potential exhibit and guest experience space will be freed up by moving offices and converting underutilized storage rooms.

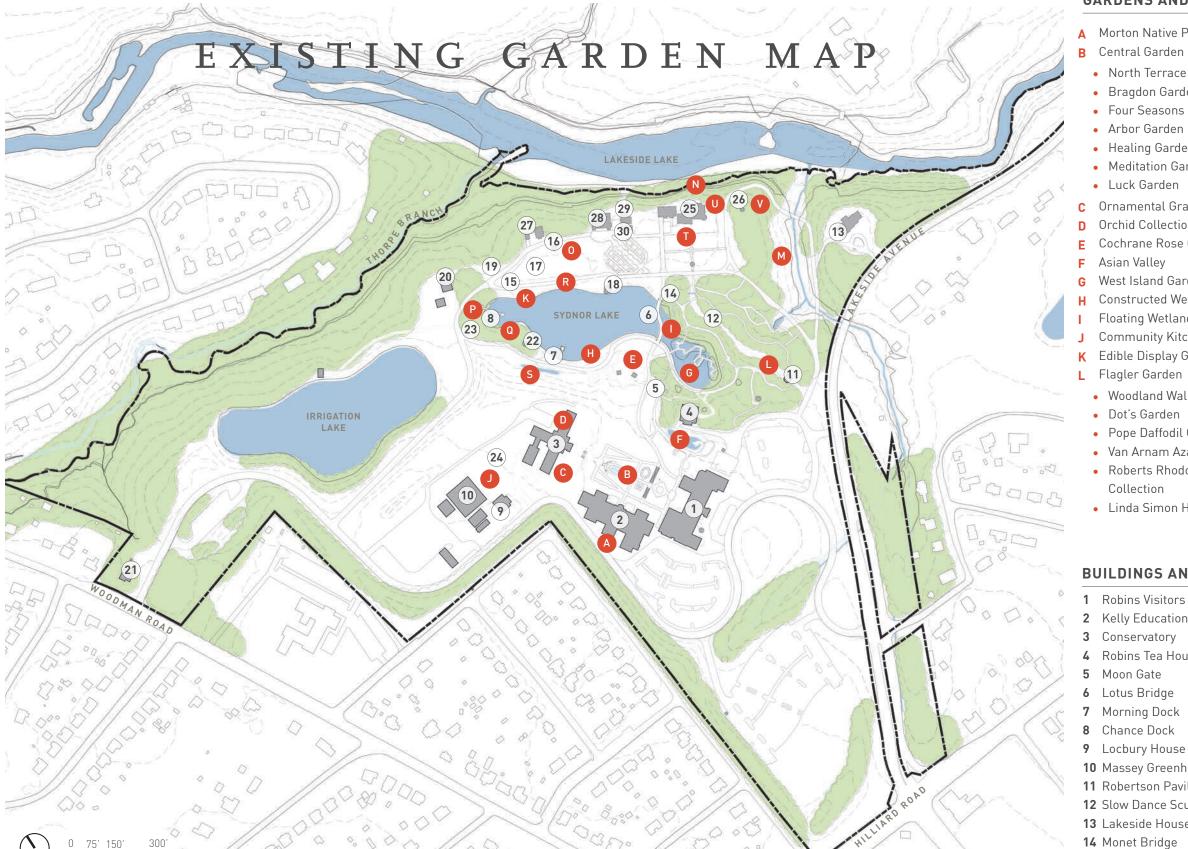


GARDEN CHARACTER REGION: BLOEMENDAAL HOUSE

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GARDENS AND COLLECTIONS

- Morton Native Plant Garden
- Central Garden
- North Terrace Garden
- Bragdon Garden
- Four Seasons Garden
- Arbor Garden
- Healing Garden
- Meditation Garden
- Luck Garden
- c Ornamental Grass Garden
- Orchid Collection
- E Cochrane Rose Garden
- Asian Valley
- **G** West Island Garden
- Constructed Wetland
- Floating Wetland
- Community Kitchen Garden
- Edible Display Garden
- Flagler Garden
- Woodland Walk
- Dot's Garden
- Pope Daffodil Collection
- Van Arnam Azalea Walk
- Roberts Rhododendron Collection
- Linda Simon Hosta Collection

- Clevenger Ornamental Grasses
- Rob's Garden
- White Garden
- M Woodland Garden
- N Wildside Walk
- O Children's Garden
- Mulberry Tree
- Weird and Contrasting Plants
- Bird and Butterfly Meadow
- Everchanging Garden
- Sensory Garden
- Farm Garden
- International Village
- P Minor Garden
- Q Streb Garden
- R Cherry Tree Walk
- S Anderson Wildflower Meadow
- T Grace Arents Garden
- U The Friendship Garden
- V Lace House Garden
- Christian Family Azalea Collection
- Van Arnam Memorial Garden

BUILDINGS AND STRUCTURES

- 1 Robins Visitors Center
- 2 Kelly Education Center
- 3 Conservatory
- 4 Robins Tea House
- **5** Moon Gate
- **6** Lotus Bridge
- 7 Morning Dock
- 8 Chance Dock
- 10 Massey Greenhouse
- 11 Robertson Pavilion
- **12** Slow Dance Sculpture
- 13 Lakeside House
- 14 Monet Bridge
- 15 SandPlay

- **16** WaterPlay
- 17 Shade Sails
- 18 CWDKids Tree House
- **19** Garden Keeper's Cottage
- 20 Barn
- 21 Woodman Road House
- 22 Streb Gazebo
- 23 Minor Gazebo
- 24 Stapleton-Tignor Apiary
- 25 Bloemendaal House
- **26** Lace House
- 27 Restrooms
- **28** Carriage House
- 29 Bulb House
- 30 Children's Garden Greenhouse

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MASTER SITE PLAN PRIORITY PROJECTS



CENTER FOR HORTICULTURAL EXCELLENCE

Over the past few years, Lewis Ginter Botanical Garden has appeared in lists of top 10 gardens in the United States. To continue our growth towards being a world-class garden serving the needs of a dynamic, vital, and engaged community, the capacity to attract, train, mentor, and retain world-class horticulturists with the space to interact and inspire volunteers and guests has become paramount.

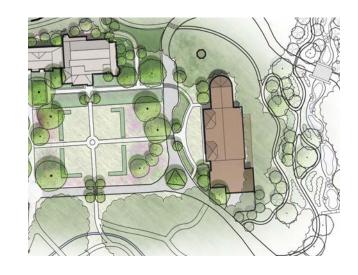
The Center for Horticultural Excellence creates the physical space to grow top-tier talent to lead the Garden through the 21st century. An exciting combination of form and function, the complex of structures permits the effective and efficient combination of operational and horticultural activities by streamlining circulation for daily workflow.



LEARNING VILLAGE

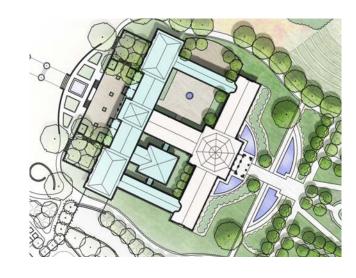
As a state-designated Center for Environmental Excellence, the Learning Village is designed to help meet the challenge of connecting as many children as possible with nature while offering flexibility to adapt to future needs. The Woodland Center will provide much-needed physical space allowing us to accommodate adequately groups and individual visitors.

The Learning Village provides for safe and efficient drop-off and pick-up of groups at the Meadow Pavilion, conditioned spaces for year-round programming and access to new garden areas that showcase rare and diverse habitats and ecosystems.



VALE HOUSE

The Vale House is an accessible and interconnected gathering, educational, and rental pavilion between the formal Grace Arents Garden and the more natural Woodland Garden. Its construction enables the re-establishment of gardens surrounding Bloemendaal House, while clearing the way to explore compelling new possibilities for that historic structure. It offers exciting new opportunities for students and those confronted with health concerns to experience our gardens in close and meaningful ways.



CONSERVATORY EXPANSION

With a clear focus on doubling our tropical plant collections (orchids, Mediterranean plants, crops of economic importance), expansion of the Conservatory will allow us to strategically build and solidify these signature collections, demonstrate new perspectives and design elements, provide a year-round home for the popular Butterflies LIVE! exhibit, and as Garden attendance continues to rise, improve pedestrian flow for school groups, tours, and visiting families.

MASTER SITE PLAN PRIORITY PROJECTS

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MASTER SITE PLAN PROJECTS

PRIORITY PROJECTS

Projects granted sequencing priority due to relative physical location on campus, requirements identified in planning process, and the capacity to advance and sustain the Garden's mission as directed by the Strategic Plan.

- Center for Horticultural Excellence
- Learning Village
 - Meadow Pavilion
 - Woodland Center
- Vale House
- Conservatory Expansion

* Garden's Connectivity: Land & Water - Making both visual and physical connections of landforms and water systems through the Garden is an overarching concept that will be applied throughout the Master Site Plan. As the Garden moves forward with new projects, these connections will be incorporated into the designs.

RENOVATIONS/EXPANSIONS

Projects with current and future requirements identified in the planning process and the capacity to advance and sustain the Garden's mission as directed by the Strategic Plan.

- Anderson Wildflower Meadow, Platform + Walkways
- Bloemendaal House Restoration
- Carriage House Renovation
- Community Kitchen Garden Expansion
- Culinary Cottage + Outdoor Demonstration Kitchen
- Entry Redesigned Circulation + New Water Feature*
- Event + Community Kitchen Garden Barn
- Garden Gateway at Lakeside and Hilliard
- Greenhouse(s), Hoop House, Growing Space
- Kelly Education Center Expansion
- Lakeside Avenue Improvements + Planting
- Lakeside House Renovation
- Lakeside Lake/North Run Shoreline Improvements Planting*
- Locbury House Renovation
- Parking Area Expansion + Redesign: Sustainable Parking and Streambed Remediation*
- Robins Visitors Center Renovation

ADDITIONAL OPPORTUNITIES

Projects identified in the planning process with the capacity to augment and support current programming and events as well as the Garden's mission as directed by the Strategic Plan. Projects listed in bold have been completed or are currently under construction.

- Children's Garden Renovations
- Conservatory Water Feature
- Cooling Misters Throughout Garden
- Demonstration Garden
- Exercise Loop Trails
- Grace Arents/Bloemendaal Garden Expansion
- Ian Robertson Pavilion Renovation (April 2015)
- Labyrinth
- LGNR Azalea Collection Expansion and Accreditation
- LGNR Education Facilities, Field/Woods Management
- Luck Memorial Garden Renovation (Early 2017)
- Morton Native Plant Garden (Fall 2016)
- Native Woodland Buffer Plantings*
- Outdoor Art & Sculpture Expansion
- Rose Garden Enhancement
- Roundhouse Pavilion
- Stapleton-Tignor Apiary (June 2016)

 ${\rm *Projects} \ connected \ to \ Streams \ of \ Stewardship$













INTRODUCTION

- Innovation
- Research & Development
- Operational Efficiency
- Professional Development



Over the past few years, Lewis Ginter Botanical Garden has appeared in lists of top 10 gardens in the United States. To continue our growth toward being a world-class garden serving the needs of a dynamic, vital, and engaged community, the capacity to attract, train, mentor, and retain world-class horticulturists with the space to interact and inspire volunteers and guests has become paramount. The Center for Horticultural Excellence creates the physical space to grow top-tier talent to lead the Garden through the 21st century. An exciting combination of form and function, the complex of structures permits the effective and efficient combination of operational and horticultural activities by streamlining circulation for daily workflow.



The Center for Horticultural Excellence includes horticulture and operations staff offices, functional spaces for back of house operations, and areas specifically dedicated to applied horticultural research. A woodworking shop will dually function as a unique classroom for visitors and a workspace for staff. Research and development facilities will allow the Garden's staff to breed original cultivars and evaluate new plants through plant trials leading to expanded and more diverse displays. For the first time, quests will be invited to become part of the process long enjoyed by volunteers, to observe and learn innovative methods and best practices with an emphasis on environmental stewardship.



INNOVATION

Just as many guests receive initial introductions to the natural world at the Garden, many also will be introduced to the "how's" and "why's" of the latest horticultural practice through observation and experience at the Center for Horticultural Excellence. The Garden's primary focus on education empowers us to adopt and reveal effective and efficient processes for creating and growing aesthetically pleasing and environmentally resilient gardens.



RESEARCH & DEVELOPMENT

To remain on the cutting edge of horticulture and development, research labs and facilities allow staff and visiting scholars to conduct research within the confines of Lewis Ginter Botanical Garden. This research focus fits in with the idea of "bringing the back of house forward" so that Garden visitors can see the science and research underlying the operations of a botanical garden.



OPERATIONAL EFFICIENCY

The rise from private farm to nationally recognized botanical garden speaks to the energy, imagination, passion, and cumulative work of three decades. Continued growth of gardens to meet demands for expanded guest education and experience will require a consolidation of the underlying operational horticultural activities that sustain and nurture our landscape. The work required to maintain these expanded gardens will demand the utmost in efficiency to best utilize available staff and volunteer time.



PROFESSIONAL DEVELOPMENT

In describing Lewis Ginter Botanical Garden, our language steers away from "what" it is to "who" we are. The character of the Garden, the quality of the horticulture, and the impact on our community are directly tied to the skill and professionalism of the horticulture staff. By providing appropriate facilities for the work we expect to do and the research we intend to conduct we will attract, nurture, and retain the best in horticultural imagination and talent from across the country.

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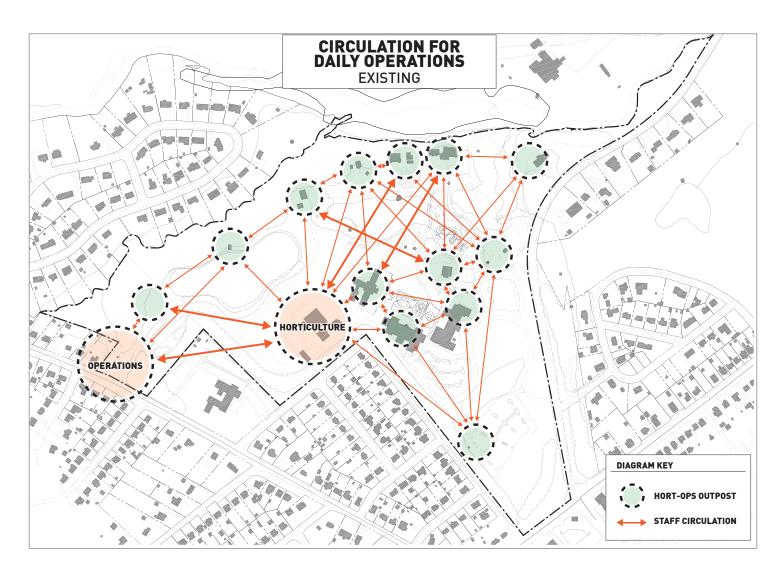


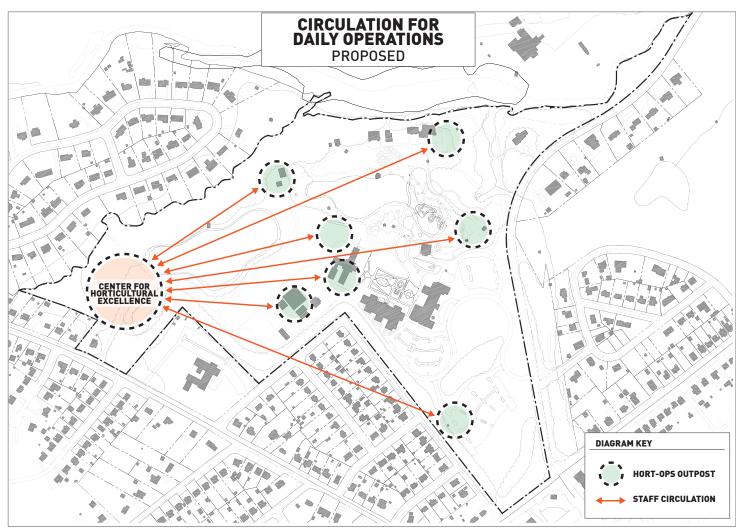
Center for Horticultural Excellence Key

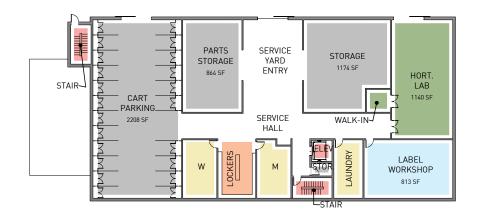
- **04** Pesticide & Fertilizer Storage
- **07** Main Building Entrance
- 08 Storage Level Entrance









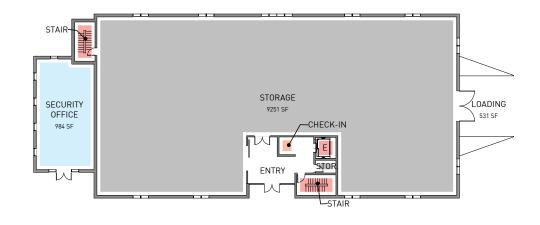


LOWER LEVEL

Lower Level 10,766 sf

The lower level primarily consists of spaces dedicated to horticulture and operations related maintenance equipment.

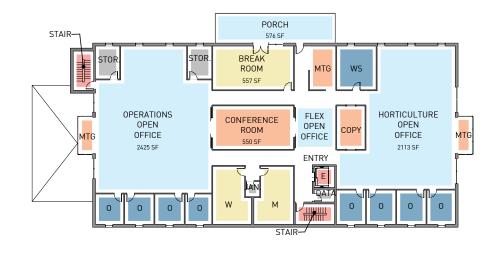
Storage of carts, restrooms, laundry and lockers contribute to work oriented tasks. Large storage areas for equipment in addition to a label workshop add to the functionality. The horticulture lab will showcase the research and science of the Garden to the public.



MIDDLE LEVEL

Middle Level 11,745 sf

The middle level will be the grade entry to the building. The vertical circulation core will carry the staff to upper and lower levels. An attached security office will be located at the east end of the building. The remainder of the level will be devoted to much needed storage for Garden related events and programming.



UPPER LEVEL

Upper Level 10,941 sf

The upper level will be the administrative center for the horticulture and operations staff. A combination of enclosed and open offices will facilitate work function. Shared space will consist of a conference room, copy area, several small meeting rooms, a large break room with kitchen, and dining porch.

Total Area 33,452 sf

PROGRAM COLOR KEY





BUILDING	ROOM	PROPOSED SF	NOTES	TYPE	CODE EVALUATED OCCUPANCY	PROPOSED OCCUPANCY
LOWER LEVEL		10,766			23	10
	Utility Vehicle Parking	2,208		Garage	7	na
	Locker Room w/ Restrooms	962		na	5	na
	Laundry	266		na	na	na
	Horticulture Lab	1,140		Storage/Mech	4	10
	Label Workshop	813				
	Operations Storage	1,174		Storage/Mech	4	na
	Parts Closet	864		Storage/Mech	3	na
	Circulation	3,339				
MIDDLE LEVEL		11,745		-	41	3
	Security Office	984		Business	10	3
	Storage	9,251		Storage/Mech	31	
	Circulation	1,510		na		
UPPER LEVEL		10,941		-	80	74
	Flex Open Office	296		Business	3	4
	Operations Open Office	2,425		Business	24	26
	Operations Enclosed Offices x 4	539		Business	5	4
	Horticulture Open Office	2,113		Business	21	32
	Horticulture Enclosed Offices x 4	625		Business	6	4
	Horticulture Enclosed Workstations (WS)	271		Business	3	4
	Conference Room	550		Business	6	na
	Break Room	557		Business	6	na
	Meeting Rooms x 3	395		Business	4	na
	Copy Room	192		Business	2	na
	Restrooms	645		na		
	Circulation	2,333				
TOTAL CONDIT	TIONED SPACE	33,452			144	87
RESTROOM CAL Maximum area allo	CULATIONS owance per occupant (IBC 2012)	Total Occ	Men's	Women's	Lav	Lav
Business	s 1 per 25 for first 50, 1 per 50 thereafter	90	3	3	1	1



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LEARNING VILLAGE



INTRODUCTION

Meadow Pavilion

- Gathering Space & Orientation
- Active Learning Space
- Native & Pollinator Plants
- Watershed Education

Woodland Center

- Nature-Based Learning
- **Environmental Education**
- After School Programs
- Outdoor Skills Education & Conservation



As a state-designated Center for Environmental Excellence, the Learning Village is designed to help meet the challenge of connecting as many children as possible with nature while offering flexibility to adapt to future needs. The Woodland Center will provide much-needed physical space allowing us to accommodate adequately groups and individual visitors. Additionally, this area will allow us to expand our offerings to older children and teens at a critical time in their development by incorporating exposure to service learning opportunities, horticulture careers, applied environmental sciences, and hands-on naturebased learning.

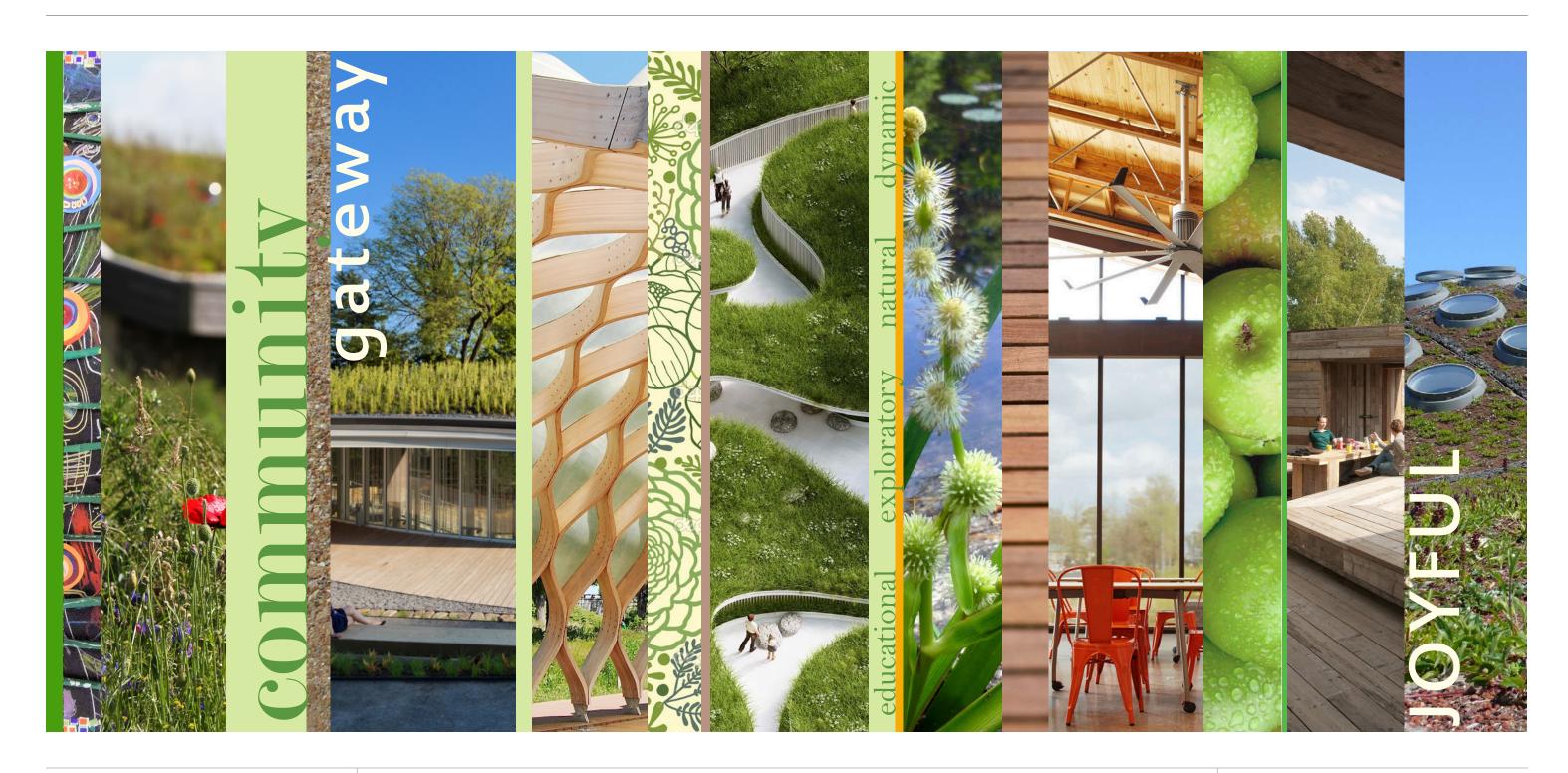
The Learning Village provides safe and efficient drop-off and pick-up of groups at the Meadow Pavilion, conditioned spaces for year-round programming, and access to new garden areas that showcase rare and diverse habitats and ecosystems.



The structures in this area will blend into the landscape wherever possible, allowing students to interact with nature. Covered teaching spaces will allow expansion of group programming by providing comfortable outdoor learning environments. Each covered space is located near one of three habitats: wetland, woodland, and meadow. With access to each of these distinct areas, opportunities for group programs expand to include meaningful watershed experiences, environmental studies, and outdoor recreational skill development. Logistically, the spaces will reduce the number of program cancellations and reschedules due to excessive temperatures or rain. Furthermore, these learning spaces will provide unlimited potential for guided and self-guided experiences including reflection, adventure, and exercise in all seasons.



LEARNING VILLAGE





MASTER SITE PLAN KEY

- Conservatory
- M Anderson Wildflower Meadow
- O Community Kitchen Garden
- Bus Drop Off
- R Meadow Pavilion

DETAIL PLAN KEY

- 1 Main Entry/Drop Off
- (2) Boardwalk
- (3) Wetlands
- (4) Meadow Classroom
- **5** Lake-Side Trail
- **6** Van/Bus Parking
- (7) Meadow Terraces
- (8) Meadow
- 9 Main Pathway
- (10) Riparian Meadow

GRAPHIC KEY

- Existing Buildings
- Proposed Buildings
- Proposed Structures

KEY PLAN



LEARNING VILLAGE





Meadow Pavilion

- 01 Meadow Pavilion
- 02 Boardwalk
- 04 Meadow Classroom



PRIORITY PROJECT: LEARNING VILLAGE - MEADOW PAVILION

LEARNING VILLAGE



GATHERING SPACE & ORIENTATION

The Meadow Pavilion provides much needed physical space to adequately accommodate the arrival and departure of groups and individual visitors. The Pavilion includes a gallery, gathering space, restrooms, and a distribution point for hundreds of students daily. After a safe and welcoming arrival, guests receive an orientation and are ready for active garden exploration year-round with access to unique and diverse habitats and ecosystems.



ACTIVE LEARNING SPACE

Access to new garden areas provides unlimited potential for guided and self-guided experiences including reflection, adventure, and exercise in all seasons. Visitors engage in active garden exploration which ranges from simple observation to citizen science. Take a deep breath and be on your way!



PLANT & POLLINATOR INTERACTION

The meadow is home to many sun-loving wildflowers, perennials, and native grasses. Birds, butterflies, and other pollinating insects inhabit the hillside meadow searching for food, nectar, and host plants. Endless learning opportunities for all audiences include plant and insect life cycles, delicate food webs, and plant and pollinator interactions.



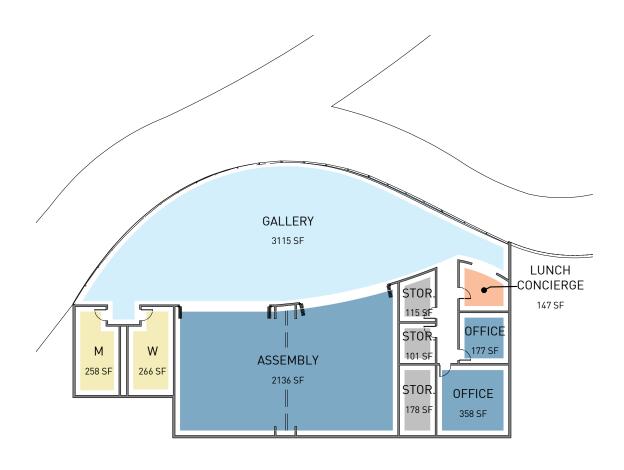
WATERSHED EDUCATION

The riparian area between the meadow and woodland provides opportunity for all ages to create an active connection to water systems strengthening their understanding of this vital resource. Age appropriate environmental field studies and meaningful watershed experiences start here with aquatic invertebrate monitoring and water quality testing and data collection.

PRIORITY PROJECT: LEARNING VILLAGE - MEADOW PAVILION

85

LEARNING VILLAGE

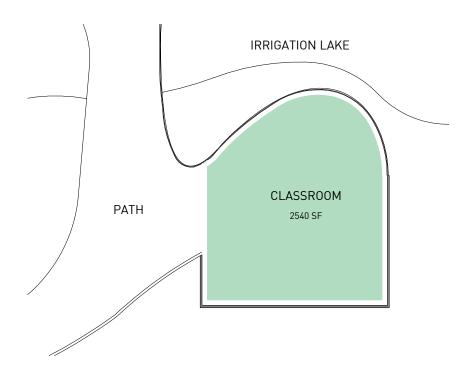


MEADOW WELCOME PAVILION

Meadow Welcome Pavilion 6,851 sf

A new welcome pavilion will provide needed gathering and organization as students begin their journey through the Garden. A new bus drop off area will transition large groups to learning, as they travel through meadow, wetland, woodland and beyond. Restrooms, a flexible assembly space, storage and lunch concierge will enhance visitor experience.

PROGRAM COLOR KEY VERTICAL CIRCULATION RESTROOM LOBBY/CIRCULATION STORAGE KITCHEN GATHERING/OFFICE



MEADOW CLASSROOM

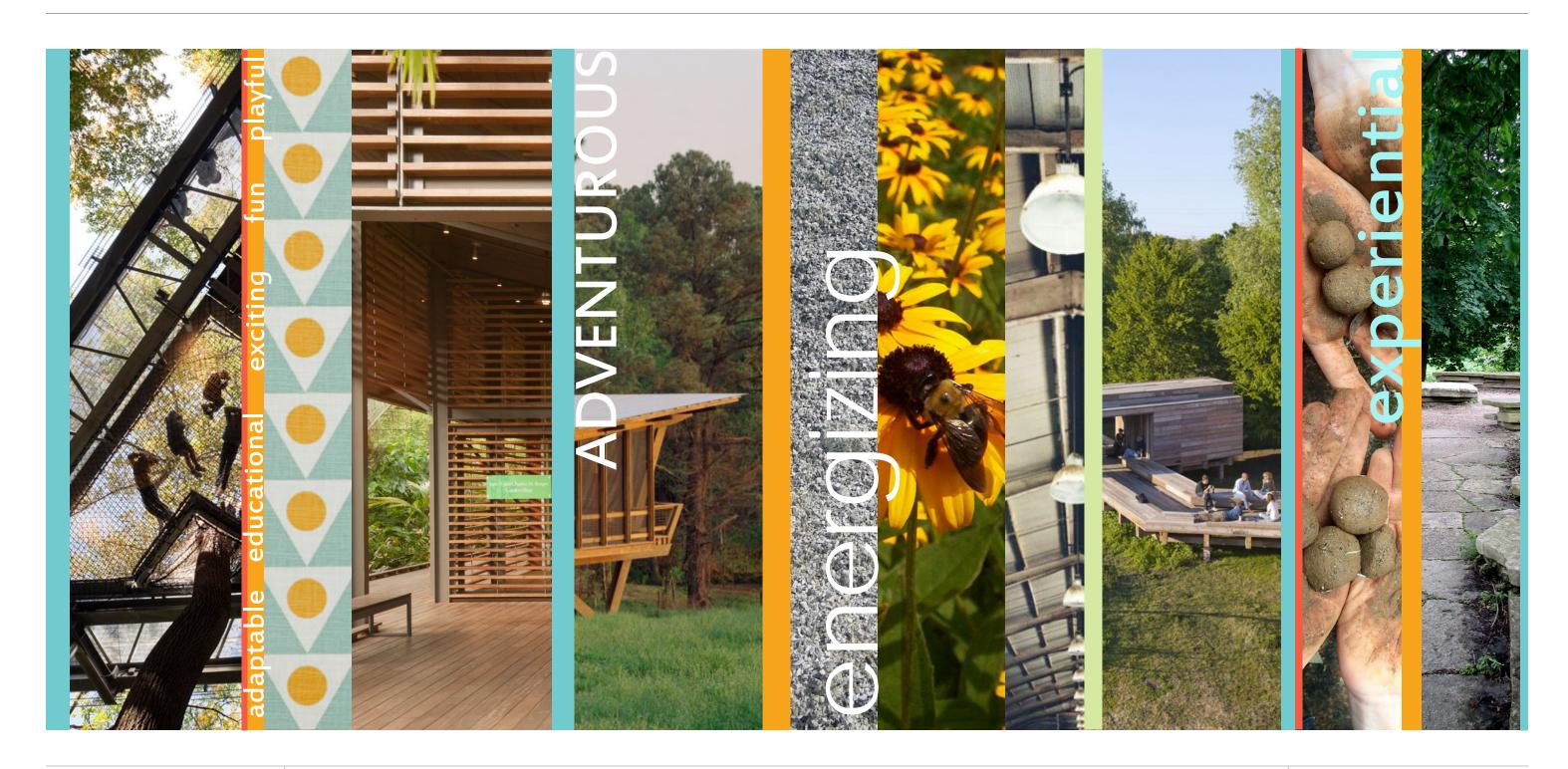
Meadow Classroom 2,540 sf

This open air classroom will allow students and teachers to learn and explore in a unique partially underground setting in the meadow. This classroom opens out onto the Irrigation Lake and its roof is part of the meadow landscape. A pop-up portal window allows visitors to view the meadow at ground level. A small storage area will store tables, chairs and learning materials.

LEARNING VILLAGE

BUILDING	ROOM	AREA		TYPE	CODE EVALUATED OCCUPANCY	PROPOSED OCCUPANCY
MEADOW WELCOME	PAVILION	6,851			356	333
	Gallery	3,115		Assembly	208	200
	Assembly	2,136		Assembly	142	130
	Restrooms	524		na		
	Offices x 2	535		Business	5	2
	Storage	394		Storage	1	0
-	Lunch Concierge	147		na	<u> </u>	1
TOTAL CONDITION	_	6,851			356	333
MEADOW CLASSROO	DM	2,540		Classroom	163	160
TOTAL UNCONDITION	ONED SPACE					160
RESTROOM CALCULA						
	ce per occupant (IBC 2012)					
Meadow Area		Total Occ	Men's	Women's	Lav	Lav
Assembly	1 per 75	350	2	2	2	2
Classroom	1 per 50	163	2	2	1	1
Business	1 per 25 for first 50, 1 per 50 thereafter	5	1_	1	1	1
		518	5	5	4	4

LEARNING VILLAGE





LEARNING VILLAGE





Woodland Center

- 05 Clearing
- 08 Woodland Barn



LEARNING VILLAGE



NATURE-BASED LEARNING

Emphasizing native plant collections, the woodland exemplifies geographical integrity for our region. From the forest floor to the canopy, this area is abundant with Virginia flora providing food and shelter for indigenous wildlife. Acting on behalf of nature, related programming from simple observation to applied ecology will help build empathy and bring awareness to nature's ecological services and the importance of sustaining a healthy ecosystem.



ENVIRONMENTAL EDUCATION - ALL AGES

The indoor and outdoor spaces in the Woodland Center provide opportunity for expanded year-round programs for children and adults. Serving a broad range of audiences, these multi-purpose spaces include a wet lab, indoor/outdoor kitchen, and media center. Program offerings include environmental studies and applied sciences, professional development for educators and garden related certificate programs. These spaces also provide expanded evening and weekend options for adult education classes, seminars, tours, and workshops.



AFTER SCHOOL PROGRAMS

Expanding our offerings to older children and teens at a critical time in their development happens through exposure to horticulture careers, applied environmental sciences, and hands-on nature-based learning. Short and long term out of school time opportunities are available for groups and individuals including homeschoolers, youth with special needs, and at-risk youth. We work with youth who have a variety of goals for their volunteer work including those who want to learn new skills, gain work experience, or earn community service hours.

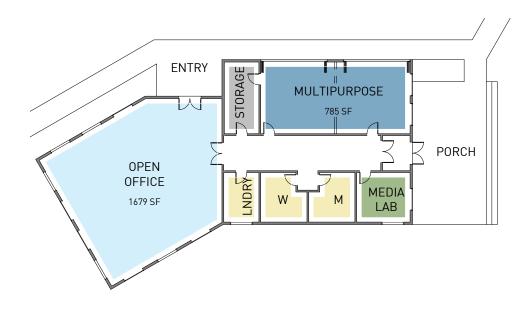


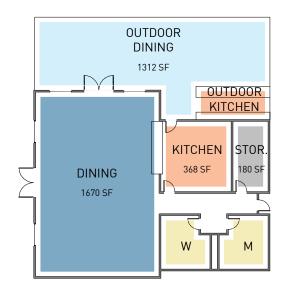
OUTDOOR SKILLS EDUCATION & CONSERVATION

Team building, camping, and orienteering are introduced in a way that is responsible and teaches respect for our natural resources. All participants are successful and participate actively, both physically and mentally. Outdoor skills development increases the amount of physical activity by getting learners of all ages and abilities outdoors and lays the foundation for lifelong recreational activity.

3NORTH

LEARNING VILLAGE





OUTDOOR CLASSROOM 1269 SF

WOODLAND EDUCATION CENTER

Woodland Education Center 3,830 sf

Located on the central clearing, the Woodland Education Center will be an operational hub for teaching staff. A large porch will serve as additional teaching area providing shade to students. Storage, laundry, restrooms, and an open office will serve teaching staff. In addition to the media center, the indoor/outdoor multipurpose room will provide more education space focused on the woodland qualities of the Garden.

WOODLAND BARN

Woodland Barn 2,755 sf

The 1,670 sf existing barn will be revitalized into a new multipurpose facility for student visitors and large classroom groups. Renovations will include updating the main barn space into a large open room that can be used for dining, teaching, or events. A new addition includes a 1,312 sf covered porch for outdoor dining, a kitchen, storage, and central restrooms that will serve the Woodland Center.

OUTDOOR

Wetland Classroom 1,269 sf

This open air classroom will allow students and teachers to learn and explore in a wetland setting. A small storage area will store table, chairs and learning materials, The classroom will connect to a series of boardwalks along the edge of the Irrigation Lake that weaves through areas of man-made wetlands and bioretention.

Boardwalk Classroom 1,269 sf

This open air classroom will allow students and teachers to learn and explore in a woodland setting. A small storage area will store table, chairs and learning materials, The classroom will connect to the woodland area via a raised boardwalk through the trees.

PROGRAM COLOR KEY





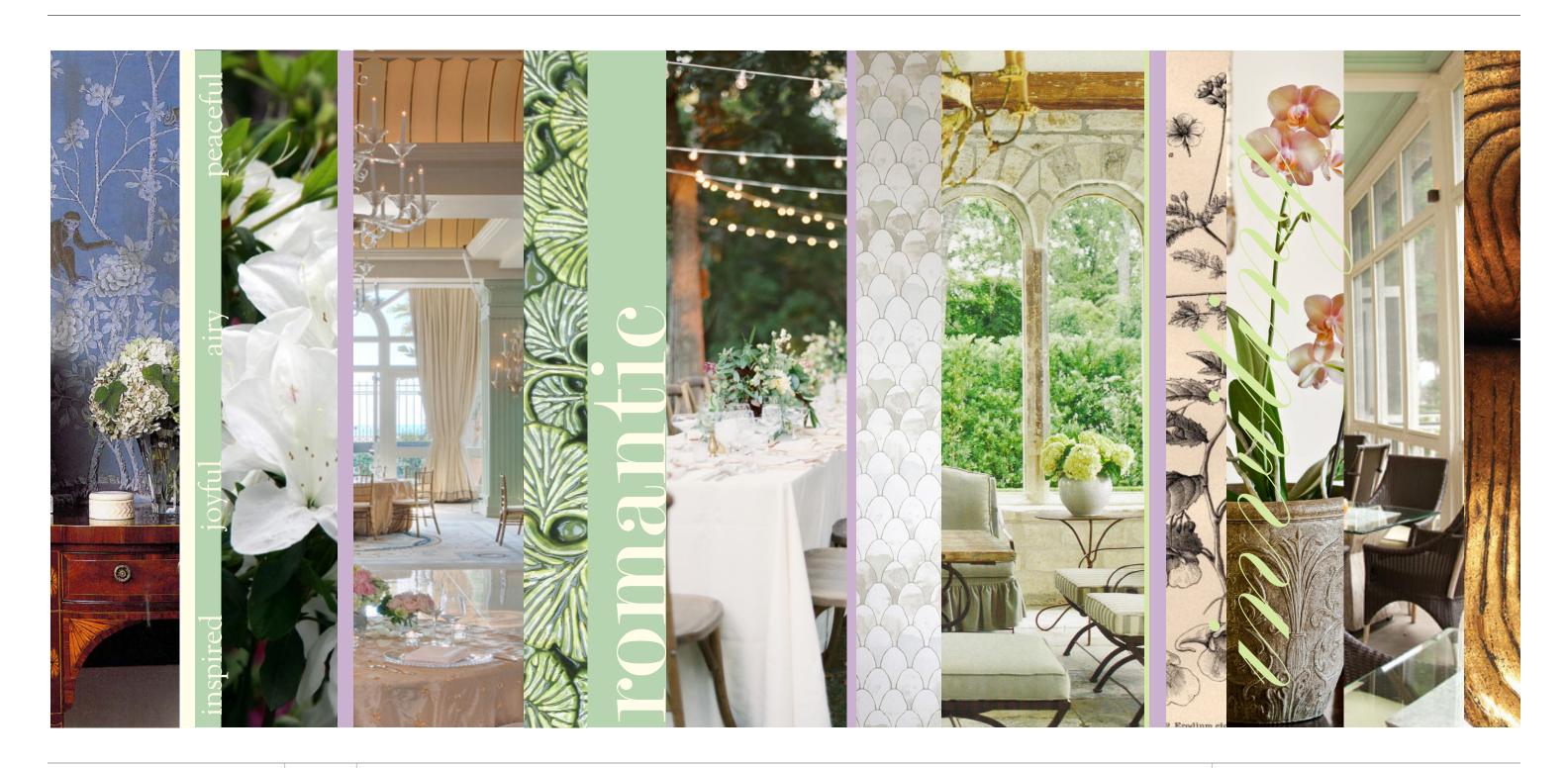
LEARNING VILLAGE

BUILDING	ROOM	AREA	NOTES	TYPE	CODE EVALUATED	PROPOSED OCCUPANCY
					OCCUPANCY	
WOODLAND EDUCA	TION CENTED	3,830			67	75
WOODLAND LDOCA	Media Lab	193		Classroom	10	10
-	Multipurpose Room	785		Classroom	39	50
	Open Office	1,679		Business	17	15
	Storage	234		Storage	1	0
	Laundry	128		na	<u> </u>	
	Restrooms	304		na		
	Circulation	507		na		
WOODLAND BARN	Circulation	2,755		IIa	114	94
WOODLAND BAKN	Assembly	1,670		Assembly	111	90
=	Restrooms	355		na	111	90
	Kitchen	368		Kitchen	2	4
	Storage/Mechanical	180		Storage	1	0
	Circulation	182		_	I	0
TOTAL CONDITION		6,585		na	307	229
TOTAL CONDITION	NED SPACE	0,365			307	229
CLASSROOMS		2,538			126	60
01/100/100/III	Boardwalk Classroom	1,269		Classroom	63	30
-	Wetland Classrooms	1,269		Classroom	63	30
OUTDOOR	Wolland Gladdroome	2,520		Classiconi	101	60
	Woodland Education Center - Porch	1,002		na		
	Barn - Outdoor Assembly/Kitchen	1,518		Assembly	101	60
TOTAL UNCONDIT	TONED SPACE	5,058			227	120
DE0TD0014 0 11 0 11	1.1.0.1.0.1					
RESTROOM CALCU		T		107		
	ance per occupant (IBC 2012)	Total Occ	Men's	Women's	Lav	Lav
Woodland Area	4 75	0.10				
Assembly	1 per 75	212	2	2	2	2
Classroom	1 per 50	175	2	2	1	1
Business	1 per 25 for first 50, 1 per 50 thereafter	17	1	1	1	1
		404	5	5	4	4

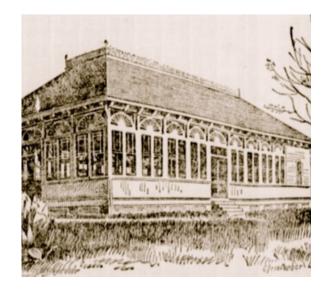
^{*}Occupancy calculations for restrooms include total proposed conditioned and non-conditioned spaces

PRIORITY PROJECT : LEARNING VILLAGE - WOODLAND CENTER













01 Rotunda

03 Main Entry



Sited at the crest of the slope separating the formal plantings of the Grace Arents Garden from the more natural valley of the Woodland Garden, the Vale House takes advantage of its location in the middle of the loop road to Bloemendaal to provide easy and engaging access to the historic heart of the Garden.

Just as other, newer structures have changed the function and purpose of Bloemendaal House through the years, the Vale House is designed intentionally to provide better access for Garden education and activities. With adequate indoor seating to accommodate requested classes, special events, and rentals, the Vale House allows the Garden to be available year-round to individuals and groups of all ages and abilities.

By complementing the site of the Grace Arents Garden and historic Bloemendaal House, with architecture echoing Bloemendaal's Victorian roots and views that bring the landscape indoors, it allows the concept of the "historic home in a historic garden" to be revealed again, while encouraging increased interaction from general visitors and invited guests for special events, family celebrations, and musical gatherings. It becomes a waypoint and destination as guests walk the wooded periphery of the Garden. It serves as an anchor for integrated garden design, as we seek more ways to honor our history and the community that has supported Garden growth and popularity.



EVENT PAVILION

Increased popularity of events in all seasons have crowded existing venues and gardens and limited future use of historic buildings and gardens. As a site for special educational events, horticultural training, popular member events like Flowers after Five, and family celebrations, the Vale House becomes a focal point for events while expanding the available gardens for large groups.



ACCESSIBILITY - NEW EXPERIENCES

With the intent to engage guests with the natural world even when programming or individual abilities can circumscribe group exposure to the gardens, a sensitively designed gathering space housed in the midst of the cultivated landscape permits an entirely new accessibility to the sensorial experiences of the plant world.



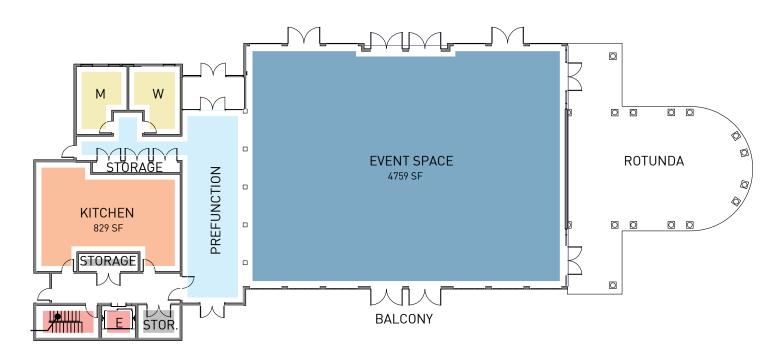
INDOOR/OUTDOOR CONNECTION

Walls of glass will cascade down the sides of the Vale House, inviting the sights of the garden and the work of gardeners to become part of the guest experience during classes, meetings, and celebrations. By allowing the natural setting to become part of the design we encourage considerations of the natural world even when that is not the focus of an event.



SEASONALITY

While there are stunning days in all four seasons in Central Virginia, there are also times when temperature and humidity limit the appeal of outdoor venues for programs of all types. The Vale House will comfortably accommodate groups year-round, encouraging expanded classes, meetings, visitation, and special events.

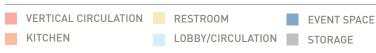


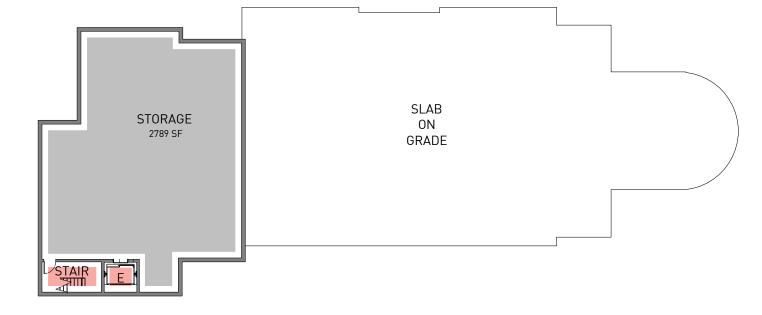
MAIN LEVEL

Main Level 7,820 sf

Guests will arrive from the Grace Arents Garden and gather in the prefunction area to take advantage of views to the Woodland Garden. Surrounded in glass, main events will be held in the ballroom, with expansive views of the surrounding woodland, Bloemendaal House and Grace Arents Garden. The rotunda space can be accessed by fully retractable wall panels to create a larger space that can be enclosed. Full service kitchen, restrooms and storage will serve the various functions planned for this permanent event space. The event space is designed to comfortably seat 250 guests but can accomodate up to 300 guests (when seated at 10-tops) and an additional 80 guests can be seated in the rotunda (up to 100 if seated at 10-tops). These counts also include space for a lectern and demo staging area.

PROGRAM COLOR KEY





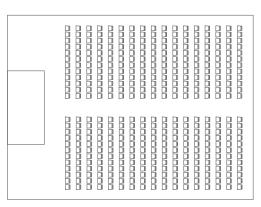
BASEMENT LEVEL

Basement Level 2,789 sf

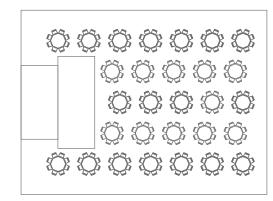
The basement will provide storage for catering and operations for the building and surrounding grounds. The elevator provides ease of access to the main level service court that has an obscured view from the Garden's guests. There will also be a dedicated outpost with storage space for horticulture and operations staff in the basement.

Total Area 10,609 sf

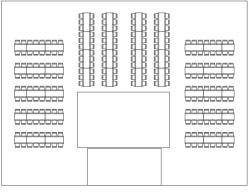
BUILDING	ROOM	PROPOSED SF (NET)	ТҮРЕ	CODE EVALUATED OCCUPANCY	PROPOSED OCCUPANCY	SEATING
FIRST FLOOR		7,820		684	254	
	Event Space	4,759	Assembly - Chairs only	680	250	
	Prefunction	932	, ,			
	Kitchen	829	Kitchen	4	4	
	Accessory Space					
	Catering Storage	65	Storage/Mech	0	na	
	Operations Storage	85	Storage/Mech	0	na	
	Coat Storage	55		0		
	Men's Restroom	189	na			
	Women's Restroom	192	na			
	Circulation	714	na			
BASEMENT		2,789	-	9		
	Optional Operation Storage	2,789	Storage/Mech	9	na	
TOTAL CONDITION		10,609		693	254	
OUTDOOR		1,957		280	145	
	Rotunda	1,287	Assembly - Chairs only	184	100	
	Balcony	670	Assembly - Chairs only	96	45	
TOTAL UNCONDITION	ONED SPACE	1,957		280	145	
RESTROOM CALCULA Maximum area allowan	ATIONS ace per occupant (IBC 2012)	Total Occ	Men's	Women's	Lav	
Required Assembly	Unconcentrated Chairs Only	693	5	5	2	
Provided	•		5	5	3	



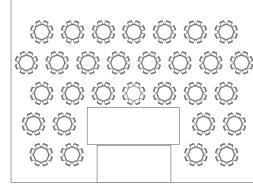
SEATING: 408



ROUND TABLES: (29) 8-10 TOP SEATING: 250



LONG TABLES: (4) X 24 TOP, (16) X 10 TOP

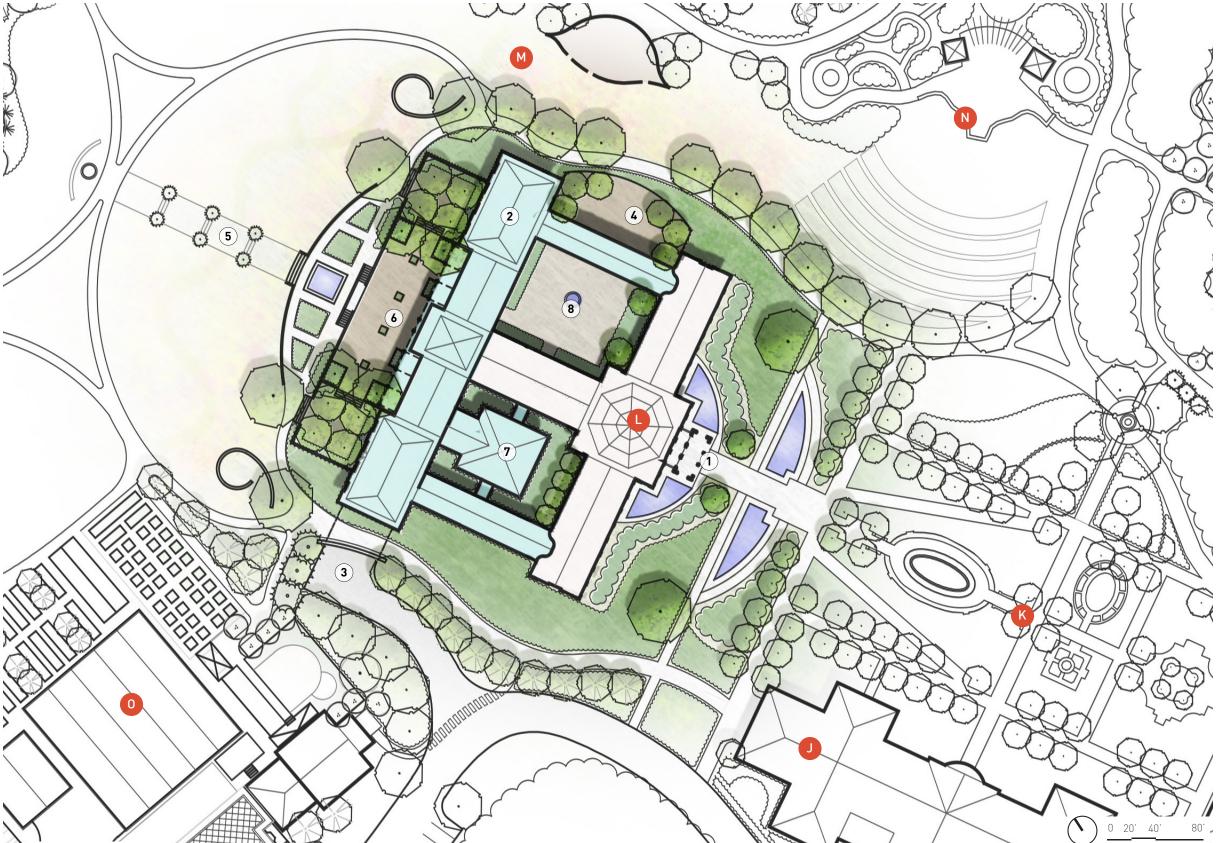


ROUND TABLES: (28) 8-10 TOP SEATING: 250



CONSERVATORY EXPANSION





MASTER SITE PLAN KEY

- Melly Education Center
- K Central Garden
- Conservatory
- M Anderson Wildflower Meadow
- N Cochrane Rose Garden
- Community Kitchen Garden

DETAIL PLAN KEY

- 1 Main Entry
- (2) Two-Story Palm Walk
- (3) Service Access
- (4) Conservatory Overlook
- (5) Meadow Terraces
- **6** Sunset Terrace
- **7** Butterfly House
- 8 Event Courtyard

GRAPHIC KEY

- Existing Conservatory/Greenhouse
- Proposed Conservatory/Greenhouse

KEY PLAN

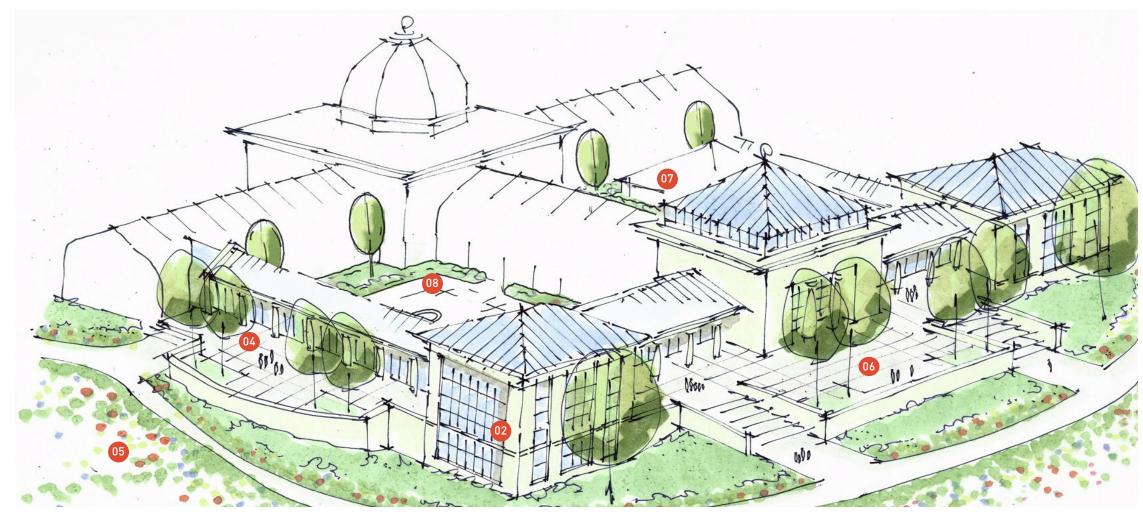






Conservatory

- 02 Two-Story Palm Walk
- **04** Conservatory Overlook
- 05 Anderson Wildflower Meadow
- **06** Sunset Terrace
- 07 Butterfly House
- 08 Event Courtyard



The Conservatory has been an iconic structure since its construction in 2003. Situated at the topographical and geographical heart of the Garden, it has been emblematic for the organization since its opening. It has allowed the Garden to display global plant diversity year-round in an attractive and comfortable setting.

Exhibitions of seasonal interest have accented a distinct collection of exotic and tropical plants. The popular Butterflies Live! Exhibit, housed seasonally in the North Wing, draws long-standing members and new visitors to learn about the plant world and the importance of pollinator interaction.

An expanded Conservatory will increase our capacity to display and teach about plants from tropical, desert, and Mediterranean climates. The expanded display rooms will accommodate ever larger daily visitation and permit more educational groups by increasing and improving paths for pedestrian flow. By creating a year-round, appropriately sized butterfly exhibition space, we will encourage increased year-round visitation from families and school groups, and free up plant display space in the North Wing. By improving gathering spaces within and at the edges of the Conservatory, we will accommodate gatherings for special events as well as classes, and facilitate the flow of guests from the Formal region to the waterways, Learning Village, Community Kitchen Garden, and beyond.



SEASONAL EVENTS

The beautiful and functional qualities of the Conservatory have made it popular for programmatic use in all seasons. The expanded Conservatory and associated landscaping will accommodate the increased demand for seasonal use for Garden programming and provide more appropriate space for a year-round butterfly experience. The Garden will be able to offer distinct and desirable venues for gatherings and celebrations even while increasing and diversifying the displayed plant collection.



INDOOR PLANT COLLECTIONS

The majority of the world's plant specimens are unable to thrive year-round in the climate of Central Virginia. A key element of the Garden's strategic plan is to display, research, and teach global plant diversity. The Garden's capacity to accomplish this with tropical, low desert, and Mediterranean plants is directly linked to available planting and display space inside the Conservatory. With expanded opportunities to cultivate and educate with warm climate plants we can convey vital information about the economic impact of these plants, the preservation of rain forests, and changing horticultural practice in a period of warming climate.



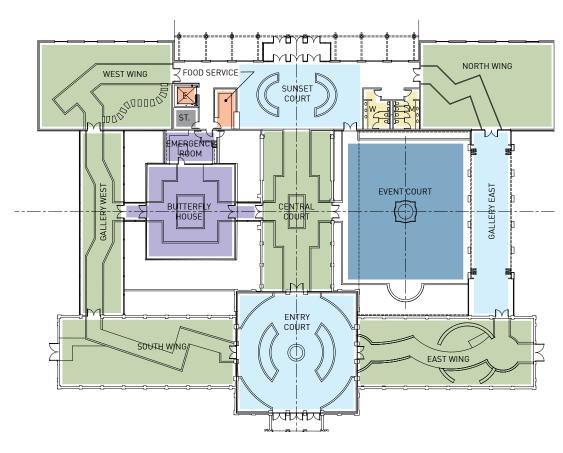
INDOOR/OUTDOOR CONNECTIONS

Sited at the high point in the Garden, with views of the surrounding campus available all around. the Conservatory will be the physical center of the Garden guest experience. For years a highly sought out destination at the very end of the Central Garden, the addition of the Community Kitchen Garden and Stapleton-Tignor Apiary has confirmed that Conservatory expansion will provide easy and inviting access to new garden destinations beyond the Formal region and act as an organizing feature for individual visits and group events. Terraced areas and courtyards will invite formal and informal gathering space. Pathways to, around, and through the Conservatory will facilitate the flow of visitors and the understanding of the Garden's geography.



GUEST COMFORT/ ACCESSIBILITY

By providing circular flow through plant display spaces, adding entry points, and improving guest amenities, the Conservatory will permit larger numbers of visitors, tours, and student groups. A permanent, right-sized butterfly exhibit will make the insects more immediate and accessible year-round. Movement through the Conservatory will be intuitive and obvious, allowing guests to connect to and learn from the plant collections without distraction. With a comfortable space accessible to individuals of all abilities, guests will be free to focus on topics of instruction or to experience the exotic collection.



CONSERVATORY FIRST FLOOR

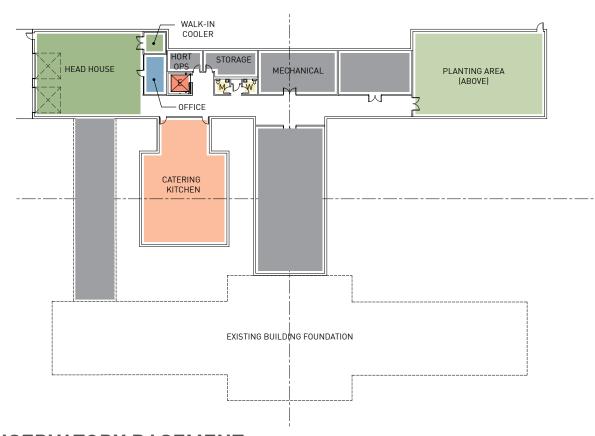
First Floor Conservatory Expansion

19,818 sf

The existing glass Conservatory (10,728 sf) will be expanded to nearly twice it's size to expand plant collections, create a unique stand-alone butterfly exhibit space, and provide an outdoor terrace dedicated to special events. Expanding towards the north area of the Garden, two new wings will be added in addition to two connector galleries, all with plantable space. The Sunset Court will provide a comfortable area for visitors to refresh that includes restrooms and an area for food and beverage service. Existing collections within the Entry Court, South Wing and Central Court will be revitalized through planting expansions and reworking of pathways. The Event Court can seat 150 guests at round tables (10-tops) with room for a dance floor and small stage.

PROGRAM COLOR KEY





CONSERVATORY BASEMENT

Basement Conservatory Expansion

7,320 sf

Existing mechanical and storage in the basement will be expanded and reordered to better serve the improved Conservatory. A catering kitchen will be added to serve the event space. A new lower level loading dock will serve the head house equipped with a walk-in cooler and offices for Conservatory staff. An elevator will serve both event staff and operations of the Conservatory. There will be a small dedicated outpost for horticulture and operations storage.

Total Conservatory Expansion

27,138 sf

3NORTH

BUILDING	ROOM	EXISTING SF	PROPOSED SF	EXISTING INTERIOR PLANTING AREA	PROPOSED INTERIOR PLANTING AREA	NOTES	ТҮРЕ	CODE EVALUATED OCCUPANCY	PROPOSED OCCUPANCY
FIRST FLOOR		10,728	30,546	5,605	12,181			707	577
	Entry Court	3,058	3,058	1,506			Gallery	75	75
	East Wing	2,636	2,636	1,850			Gallery	29	29
	South Wing	2,651	2,651	1,960			Gallery	21	21
	North Wing	na	2,514	na			Gallery	31	31
	West Wing	na	2,514	na	1,778		Gallery	25	25
	Gallery East	na	1,751	na			Gallery	58	58
	Gallery West	na	1,728	na			Gallery	28	28
	Central Court	2,205	2,462	289			Gallery	47	47
	Event Court	na	5,267	na		Assemb	ly - Tables and Chairs	280	150
	Sunset Court	na	2,665		224		Gallery	81	81
	Butterfly House	na	1,812	na	971		Gallery	28	28
	Emergence Room	na	376				Business	4	4
	Accessory space	na							
	Storage		121				na		
	Men's Restroom		203				na		
	Women's Restroom		203				na		
	Service Elevator		142				na		
	Vestibule North	na 178	265 178				na		
DACEMENT	Vestibule South	4,811					na -	32	10
BASEMENT	Head House	2,241	12,131 2,047					7	13
	Head House Office		2,047				Storage/Mech Business	2	0 2
	Head House Walk-In	na na	121				na		
	Mechanical (Existing)	2,108	2,267				Storage/Mech	8	0
	Mechanical (New)	2,100 na	786				Stor age/Mech	0	0
	Service Elevator	na	158						
	Restrooms	na	139						
	Catering Kitchen	na	2,131				Kitchen	11	11
	Storage	na	1,242				Storage/Mech	4	0
	Potential Expanded Storage	114	1,524				Otor age/ Meen		
	Circulation	462	1,505						
TOTAL	on catalion	15,539	42,677	5,605	12,181			739	590
RESTROOM CALCULATIO Maximum area allowance	NS e per occupant (IBC 2012)	Net sf/occ	Total Occ	Men's	Women's	Lav			
Assembly - Tables and C	Chairs Unconcentrated Table and Chairs	15	280	2					
Gallery	Exhibit Gallery and Museum	30	423	3					
Gallery	Exhibit Gattery and Museum	30	703	<u> </u>					

^{*}Square footages listed above are net areas to calculate occupancy, square footages listed on previous page reflect gross area calculations



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LEWIS GINTER BOTANICAL GARDEN

In 30 years Lewis Ginter Botanical Garden has grown from an idea to a nationally recognized garden. The far-reaching vision of Grace Arents, the support of other passionate benefactors, and the work of countless board leaders, volunteers, and employees have transformed the landscape with new gardens, watercourses, facilities, and infrastructure. The evolving property has welcomed, educated, and inspired hundreds of thousands, earning the Garden recognition and awards. In her lifetime Grace Arents worked tirelessly to strengthen her community by providing extensive educational opportunities for its members. She created and worked Bloemendaal Farm as an example and inspiration to all.

We strive to emulate Grace's innovative spirit by connecting plants and people to improve our community. Our Strategic Plan, Unearthing Our Potential, renews our commitment to horticulture collections, documentation, research, and formal and informal education. The plan also integrates community engagement opportunities that foster an improved regional quality of life.

Going forward we will work to preserve our legacy even as we expand our gardens and facilities and shift our culture to meet the dynamic needs of the Richmond region. We intend to be an ever-stronger resource to our neighbors by delivering authentic experiences that are relevant to people of all ages and abilities. We will strive to improve the daily lives of individuals from all corners of our community, both on and off campus.

With the example and inspiration of our predecessors, we believe there are no bounds to our future possibilities. The ways and means are at hand, and we are confident of the advances still before us.



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LEWIS GINTER NATURE RESERVE

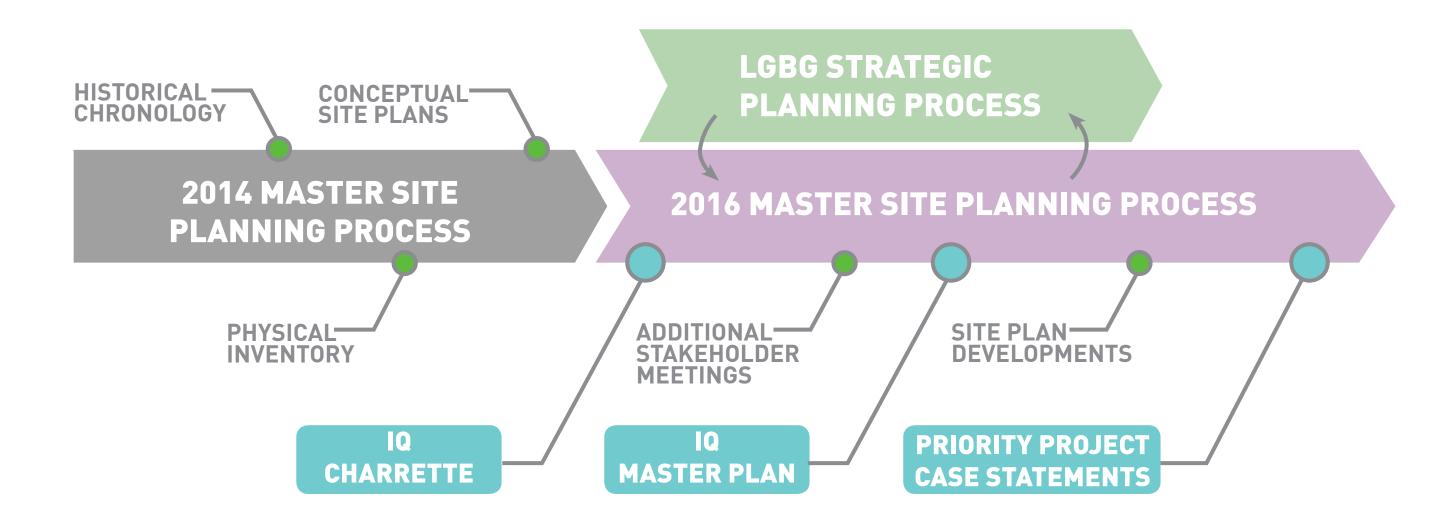
In 2009, Garden leadership began conversations with three visionary and generous siblings:
Ms. Ida Madeline Cosby (d. 2016), Monsignor
Roscoe Roy Cosby, and Ms. Patricia Elizabeth
Cosby. On land in southwestern Hanover County
first purchased to be the family home in the
early 1980's, the Cosby Farm was transformed
under the careful hands of these three
remarkable individuals into a stunning 80-acre
landscape containing 1,800 varieties of azaleas,
50 varieties of deciduous azaleas, and 300
varieties of rhododendrons as well as numerous
introduced trees and protected and preserved
native specimen trees.

In 2012 the Cosbys, with the Garden's support and encouragement, secured a conservation easement for the benefit of future generations on the newly named Lewis Ginter Nature Reserve. That same year the family included the Garden in their estate planning. In 2014, the Board of Directors of Lewis Ginter Botanical Garden, Inc. adopted resolutions to accept the future gift of the land, recognizing the benefits of a branch site to the fulfillment of the Garden's horticultural and educational mission. Immediately thereafter Garden staff members began working at the Reserve under the guidance of the family. In 2015, the family recorded a deed granting the land to the Garden, with the Garden taking possession upon the passing of the last surviving sibling.

In the fall of 2016, Monsignor Roy and Elizabeth Cosby continue to live and work at the Reserve, even as Garden staff members help them in their lifetime work to expand and document their gardens and plant collections. The Garden has initiated steps to have their azaleas, in conjunction with those at the botanical garden, recognized as a nationally accredited plant collection with the American Public Gardens Association.



MASTER SITE PLANNING TIMELINE



MASTER SITE PLANNING COMPONENTS

HISTORICAL CHRONOLOGY

An in-depth investigation into the historical development of Lewis Ginter's site and context started off the master planning process. Historical and archival research led to the development of an illustrated timeline charting the development of Lewis Ginter Botanical

Garden, compiling historic maps and photographs, architectural and landscape drawings, primary source archival documents, press articles, and secondary sources.

PHYSICAL INVENTORY

The existing elements comprising Lewis Ginter Botanical Garden were documented, inventoried, and analyzed.

Existing surveys of the Garden were compiled and combined, and site visits were conducted to further familiarize the design staff with the Garden. Discussions with Garden staff provided an overview of day to day Garden operations and physical and spatial requirements.

CONCEPTUAL SITE PLANS

Building off of site analysis, previous planning efforts, and in-depth meetings with Garden staff, a series of site plans were developed. New gardens, pathways, roadways, buildings, event spaces, parking areas, and hydrologic features were proposed in these evolving plans, providing the infrastructure to operate an engaging botanical garden that effectively serves our diverse community.

IQ CHARRETTE

The IQ (Intangible Qualities) Charrette brought together Garden staff, stakeholders, designers, and experts from a broad range of related subjects to work together to chart the future of Lewis Ginter Botanical Garden. Through presentations, group activities, and collaboration, participants helped to articulate the intangible characteristics that define Lewis Ginter.

ADDITIONAL STAKEHOLDER MEETINGS

Breakout sessions were convened with the Garden's diverse stakeholder groups, and included corporate volunteers, students from Richmond Community High School, Millennials from throughout the Richmond area, and elementary school students from Peter Paul Development Center. These meetings helped to ensure that a breadth of views from people of differing backgrounds was captured in these interviews.

IQ MASTER PLAN

From the materials, ideas, feedback, and content generated during the IQ Charrette, an IQ Master Plan document was created to articulate the intangible qualities of the Garden that were identified in the Charrette and further developed them into themes. The IQ Master Plan uses those themes to develop design palettes and actionable projects that will help carry the Garden into the future.

SITE PLAN DEVELOPMENT

Using the conceptual site plan developed in 2014 as a framework, a new plan was developed that used the information gleaned from the IQ Charrette and the stakeholder meetings. The resulting site plan is one that is built upon stakeholder engagement and participation, and elements that can be acted on in the near term as well as ones that may come to fruition ten or twenty years in the future.

PRIORITY PROJECT CASE STATEMENTS

From the updated plan, four projects were identified and further developed to be actionable projects that the Garden wishes to move forward on before other projects identified in the plan. These five projects were further developed to include detailed programming as well as more refined site and floor plans. Preliminary cost estimates were also prepared.

