# Preserving 20th Century Garden Design Excellence While Adapting As Resilient 21st Century Public Gardens Part 1: Buying Scuba Gear for Visitors

Ian Simpkins, Deputy Director for Horticulture and Urban Agriculture

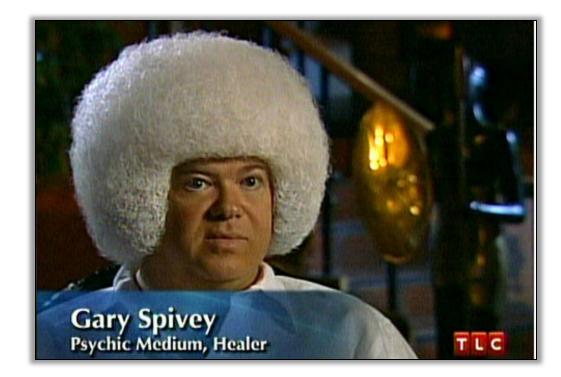
Vizcaya Museum and Gardens















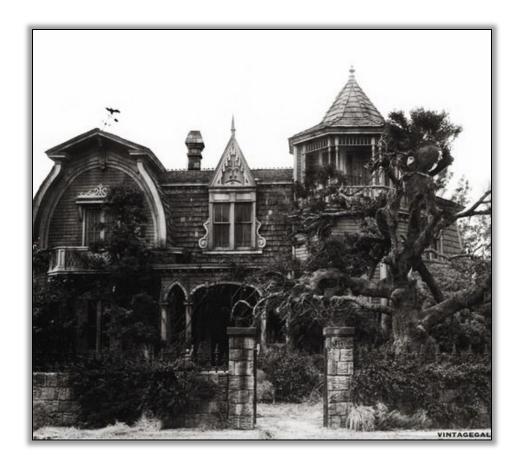














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2016 AMERICAN PUBLIC GARDENS ASSOCIATION ANNUAL CONFERENCE

















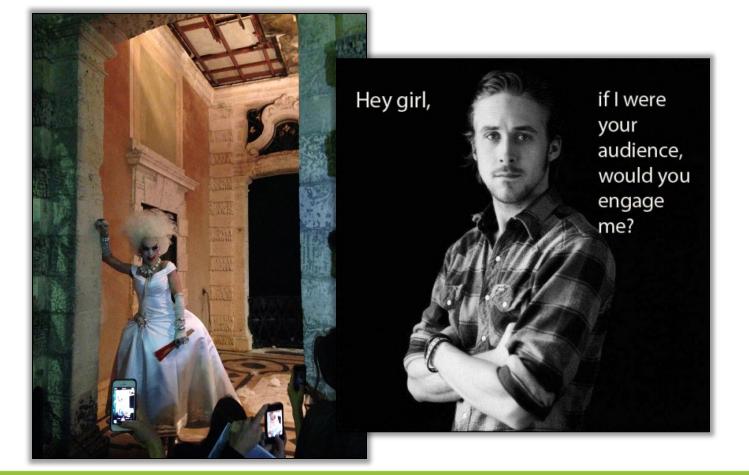








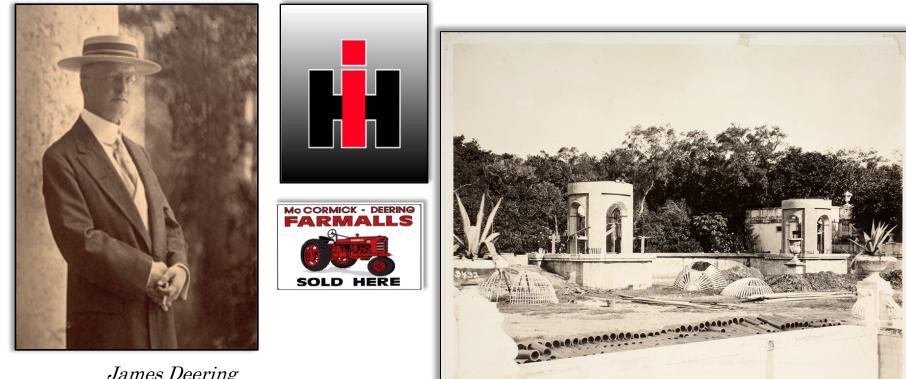












James Deering





12-1-19.













#### VIZCAYA Cultural Landscape Report Stewardship & Management Plan



VOLUME 1 OF 2

VIZCAYA MUSEUM & GARDENS THE VIZCAYANS, INC.

HERITAGE LANDSCAPES LLC PRESERVATION LANDSCAPE ARCHITECTS & PLANNERS

**FEBRUARY 2011** 



21st Century Preservation & Stewardship

#### A: VIZCAYA LANDSCAPE STEWARDSHIP PHILOSOPHY & OBJECTIVES

The Vizcaya landscape today exhibits an evolved character different from that of the Deering era appearance. As a result, preservation intervention is needed to recapture aspects of the former landscape character and features so that the rich history of the property can be effectively imagined, experienced, and interpreted. This chapter discusses the selection of a preferred treatment approach for landscape renewal. Recapture of the 1925 Deering era is discussed through the application of Preservation and Restoration with aspects of Rehabilitation and Reconstruction. Due to variations in history, authenticity and current conditions, all four preservation approaches are appropriate to apply to the renewal of specific components of the Vizzaya landscape through deliberate interventions and management.

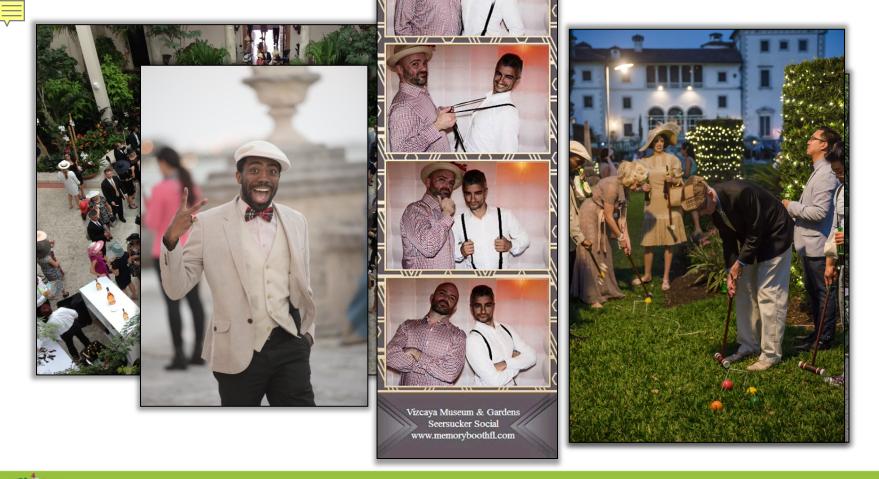
The compelling qualities and design of the Vizcaya landscape are thoroughly documented in Chapters 1 to 6. This detailed background presents landscape history, evolution, and current conditions with emphasis on the early 20the century landscape and natural communities of the James Deering era. The collection of historic imagery and period plans presents the overall character and details through time, providing a deep and broad documentary basis and analysis that together underpin landscape preservation and management recommendations described in this chapter addressing primarily the cultural landscape and the following. Chapter 8, for natural communities.

Working from the detailed documentary understanding of landscape origins and development under plans by Chalfin, Hoffman, Suárez, and the whole of Deering's team, this chapter explores a preservation approach through the four treatment alternatives. As defined in federal guidance for historic properties, Preservation, Restoration, Rehabilitation, and Reconstruction are each viable conceptual approaches to treatment intervention. These four strategies are tested in terms of their application to the Vizaya landscape. From there, the recommended preservation treatment interventions are discussed in some depth as they relate to specific issues and opportunities throughout the site. This chapter focuses on the overall estate with specific recommendations for the gardens and the designed landscape, while Chapter 8 focuses on natural communities. The chapter concludes with a synopsis of the overall preservation treatment approach, bringing the landscape to Deering brilliance while accommodating current needs.

CHAPTER 7, PAGE 1

2016 MIAMI











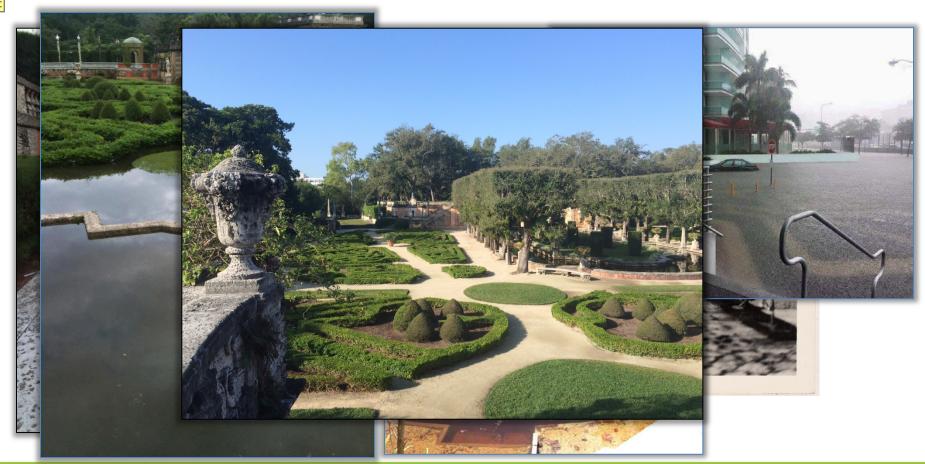


























Coastal Ecology Laboratory – University of Miami

#### MEASURES OF DIVERSITY OF MARINE PLANTS

Coastal Vizcaya includes six different habitat units, with a total of **69 different species of marine plants**. However, the greatest diversity of marine plants was found on the outside barge area and along the mangroves to the southwest. Red and Brown algae were particularly diverse in these zones. Seagrass meadows tend to be dominated by seagrass species, and thus would have few overall marine plant species. Our survey only included a small part of the large seagrass habitat across Biscayne Bay. The Vizcaya sea wall, a manmade surface, had the fewest marine plant species, and in areas, was dominated by cyanobacteria. Less marine plants were seen in the mangroves to the northeast as these areas were adjacent to a dredged channel. The attached appendix includes the Marine Plant Species list, with details of which species occurred in each habitat unit.

HABITAT UNIT	TOTAL MARINE PLANTS	Green Algae	Brown Algae	Red Algae	Sea- grasses	Cyano- bacteria
1) Seagrass meadows	<u>16</u>	9	0	4	3	0
2) Vizcaya seawall	<u>21</u>	6	3	10	0	2
3) Eastern Mangrove Creek	<u>27</u>	9	4	9	4	1
4) Eastern Mangroves with riprap	<u>25</u>	9	1	12	3	0
5) Outside of Barge	<u>35</u>	10	5	16	3	1
6) Western Mangroves	<u>33</u>	7	4	18	3	1

#### SUMMARY OF MARINE PLANTS FOUND ACROSS SIX HABITAT UNITS ON MAY 13- 14, 2016

#### THREATS TO MARINE PLANT BIODIVERISTY FOR COASTAL VIZCAYA

Coastal Vizcaya faces the real threats of 1) Coastal pollution and eutrophication, 2) Sea Level Rise and 3) Extreme Storm Events. When James Deering built Vizcaya a century ago, sea-level was 8 inches lower, and the waters of Biscayne Bay were brilliant shades of blue, not a soupy green. The estate and gardens represent one of the last stands of mangroves in the upper half of Biscayne bay, thus the local water, quality could be improved. The loss of water quality and damy has to be one of the biggest changes environmentally in the view from Vizcaya.

Marine Plant diversity can be a method of monitoring near shore environmental condition, and impact of run-off and land-based sources of nutrients entering the near shore environments. Mangroves can provide a valuable "green infrastructure" to protect historic coastal structures from storm and wave damage. Marine plants work with mangroves to stabilize shorelines, process pollutants and provide important habitats for fish and invertebrates.

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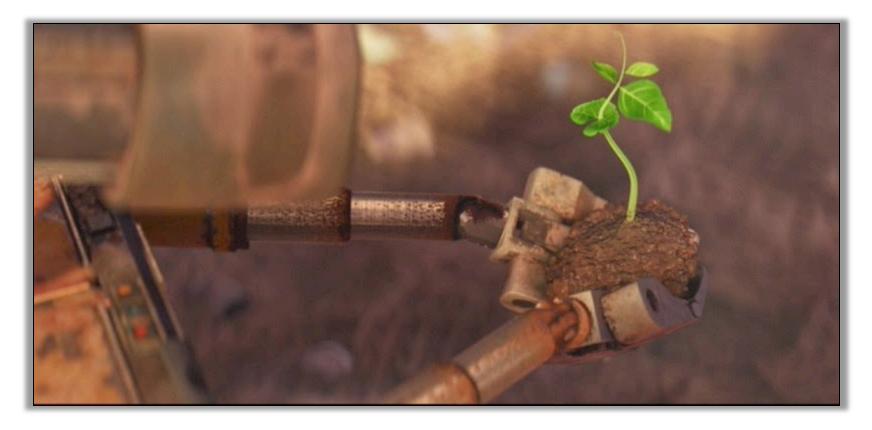




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Ian Simpkins, Deputy Director for Horticulture and Urban Agriculture

305-860-8430 Ian.simpkins@vizcaya.org





# Preserving 20th Century Garden Design Excellence While Adapting As Resilient 21st Century Public Gardens Part 2: Bok Tower

Thomas Woltz, Principal Nelson Byrd Woltz Landscape Architects

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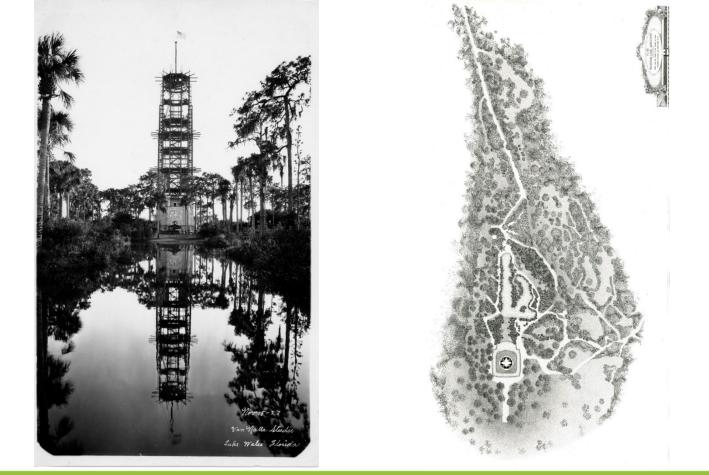








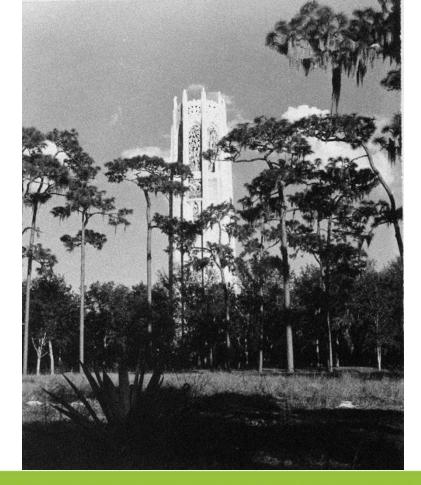




































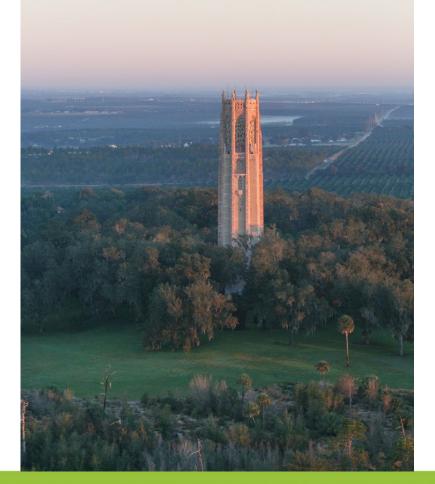














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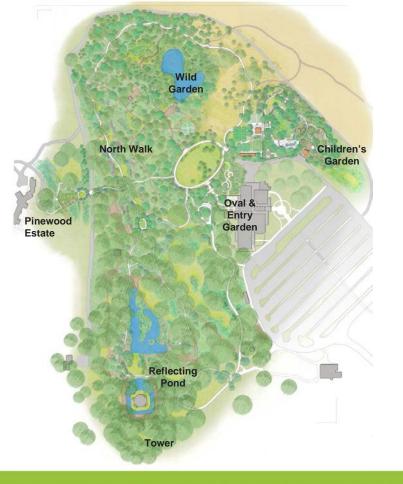










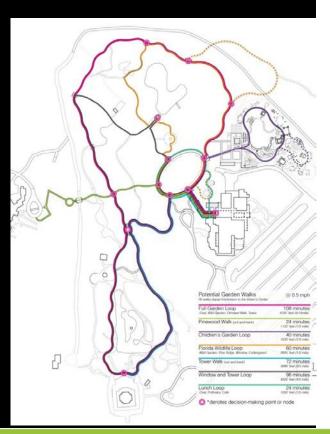






#### CIRCULATION

















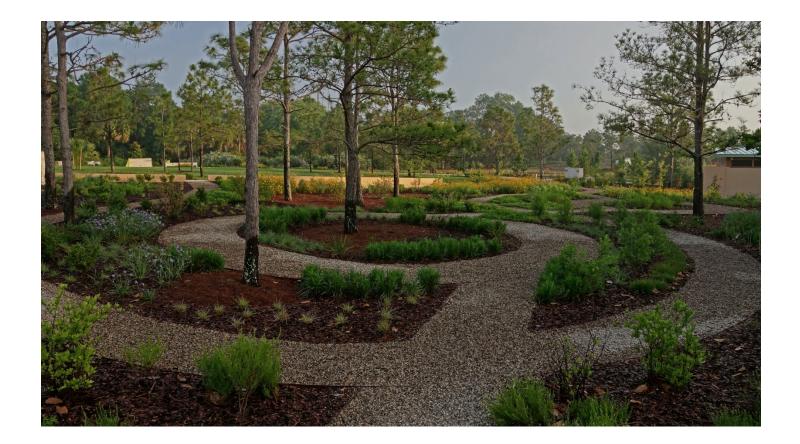
















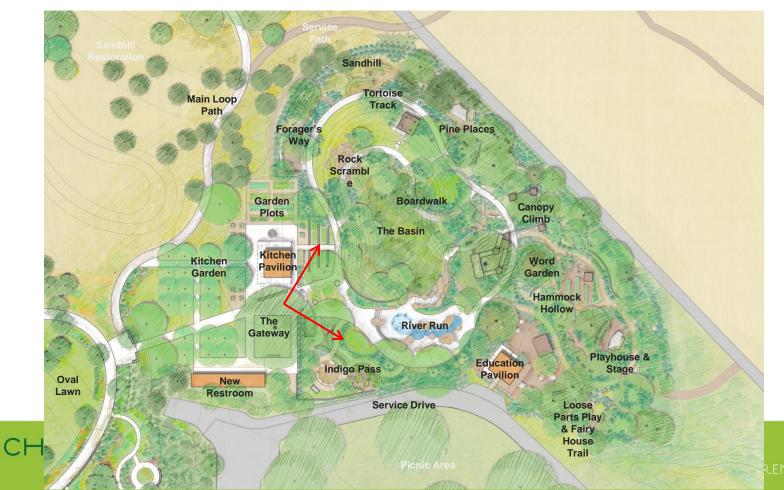






#### **CHILDREN'S GARDEN AND KITCHEN GARDEN**

2016











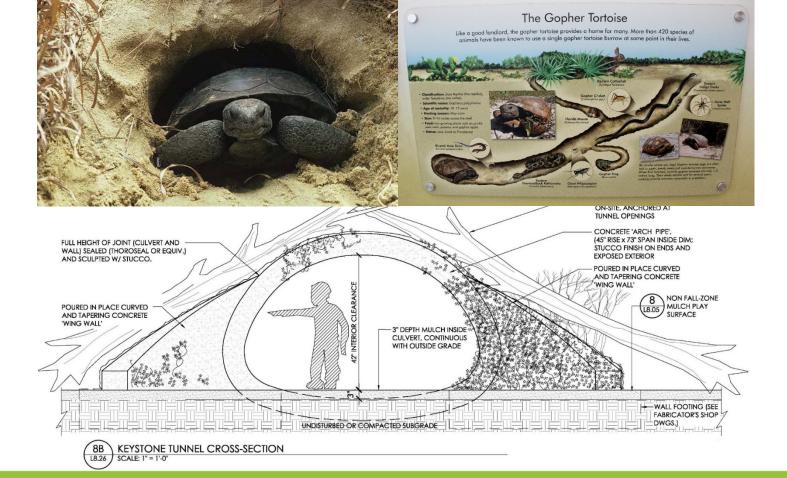






















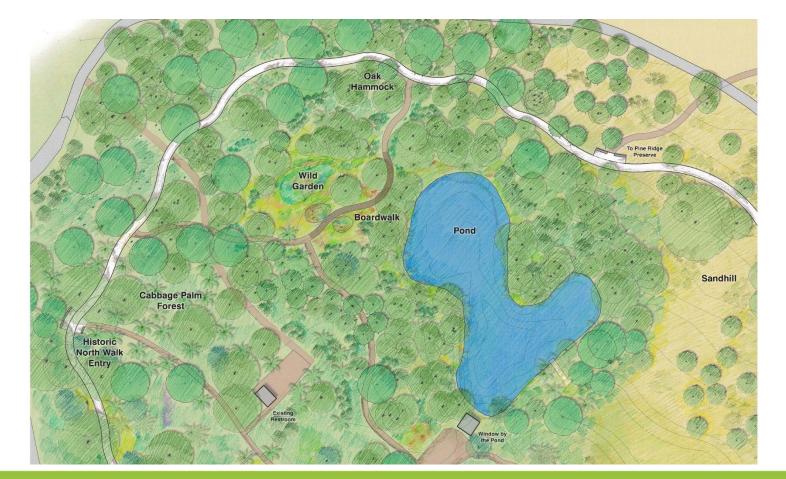












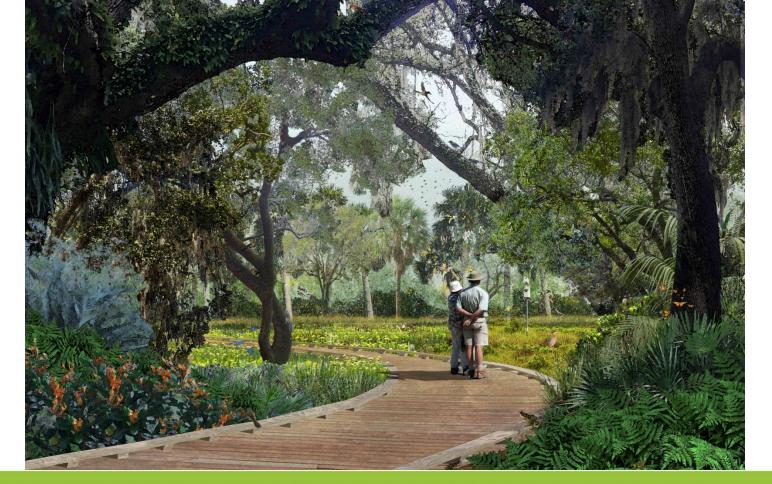














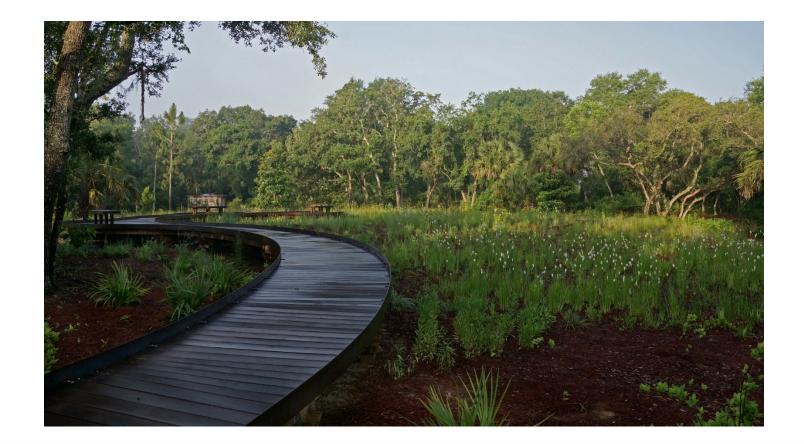






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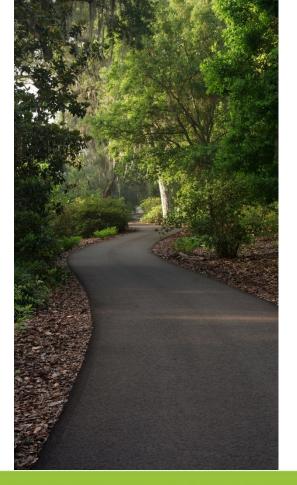




















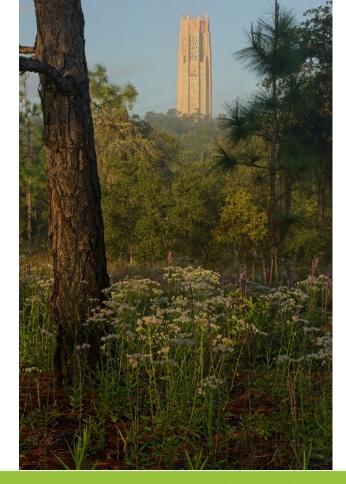
















# Preserving 20th Century Garden Design Excellence While Adapting As Resilient 21st Century Public Gardens

## Part 3: Coalescing Separate Entities Into One

Rodney Eason, CEO Land & Garden Preserve

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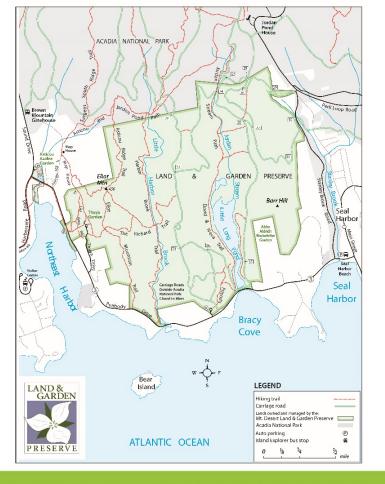






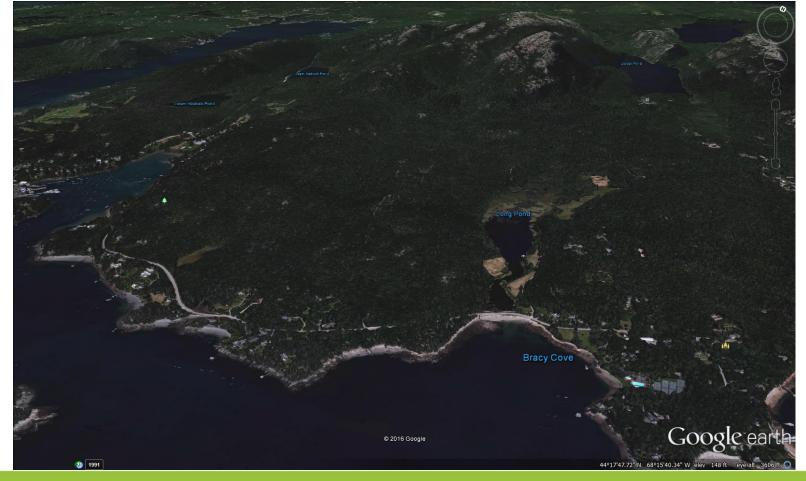






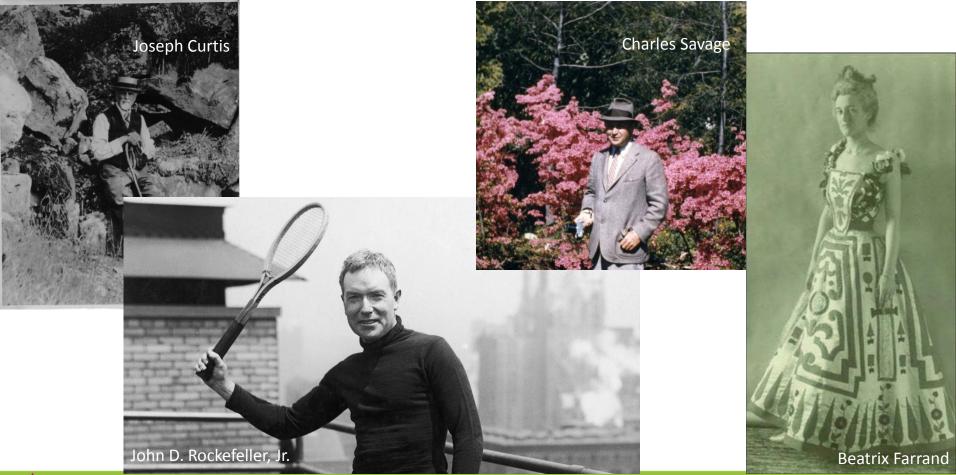












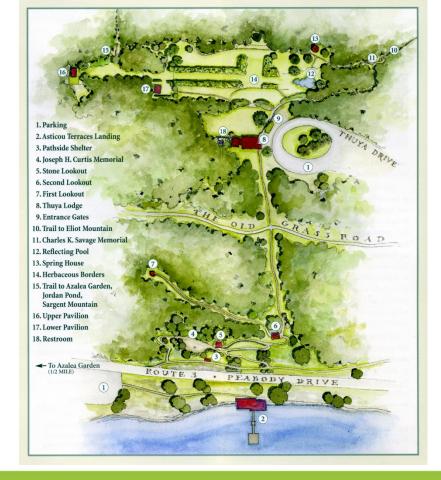






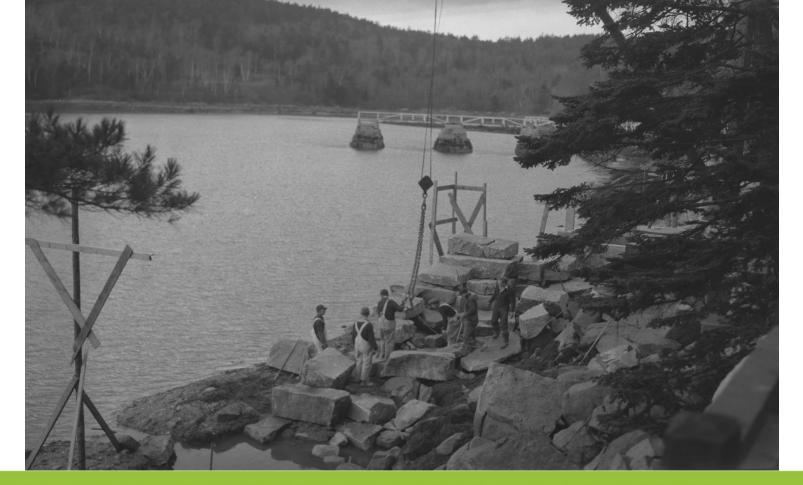






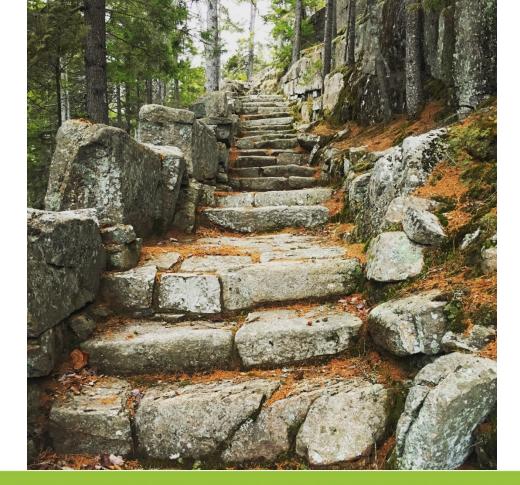














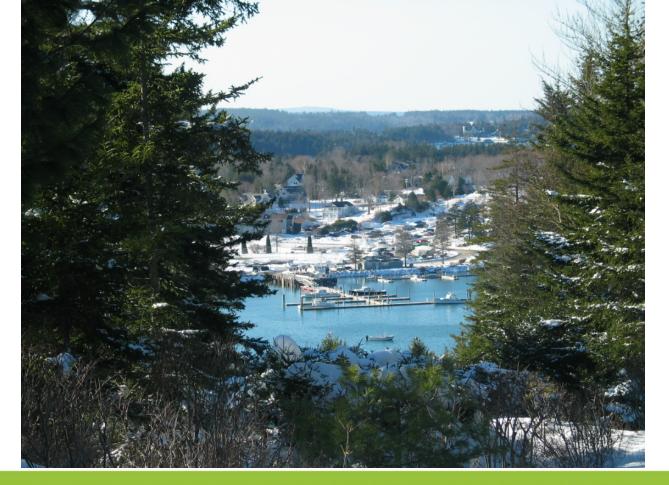
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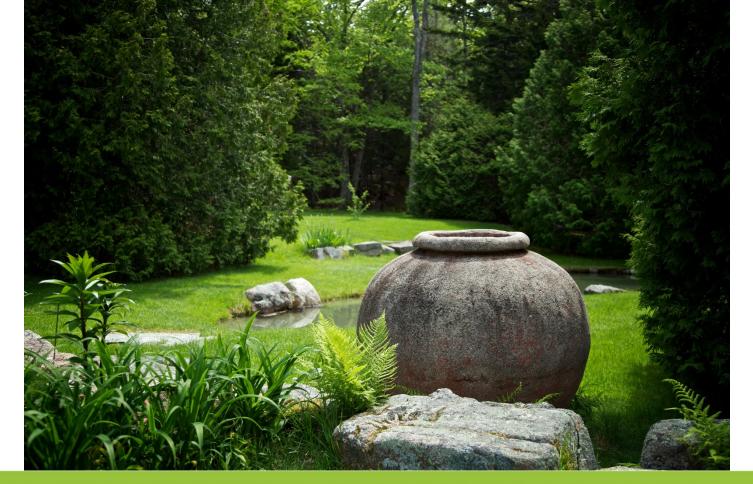














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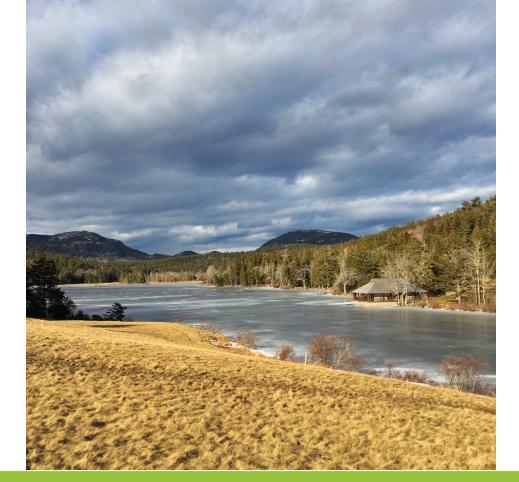






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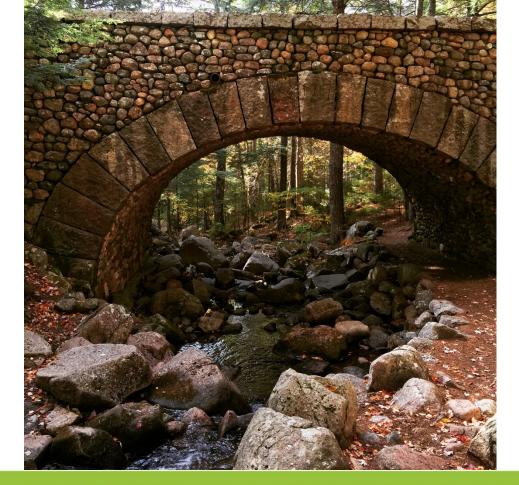














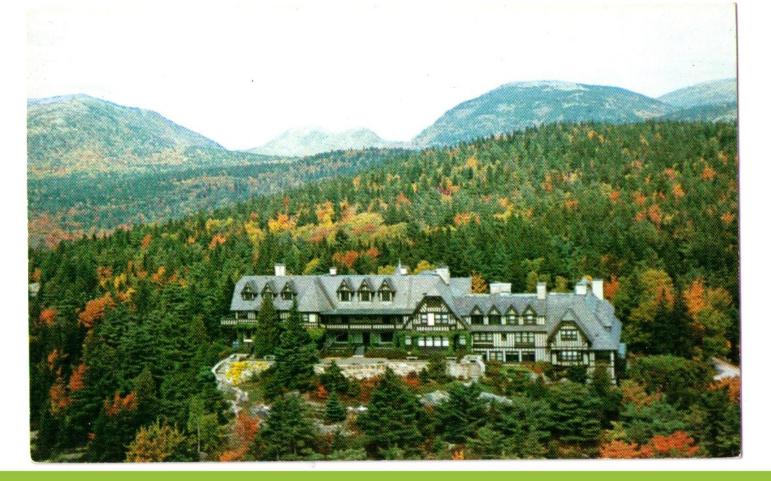
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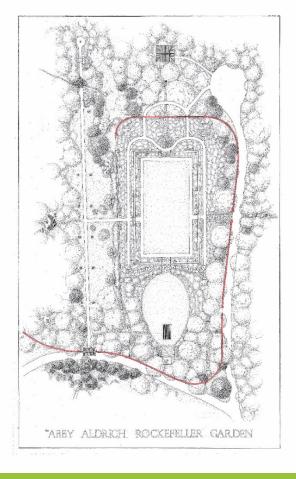






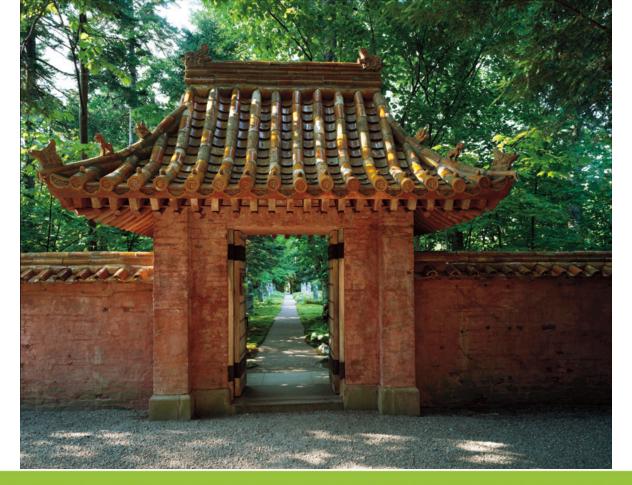








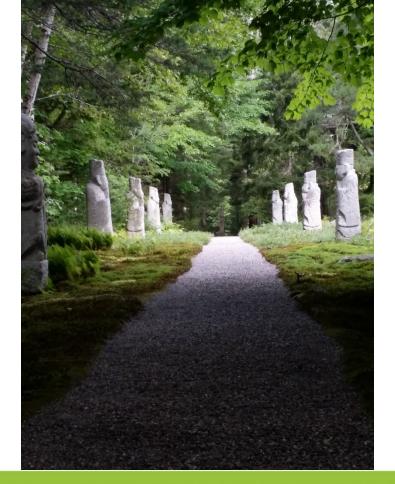






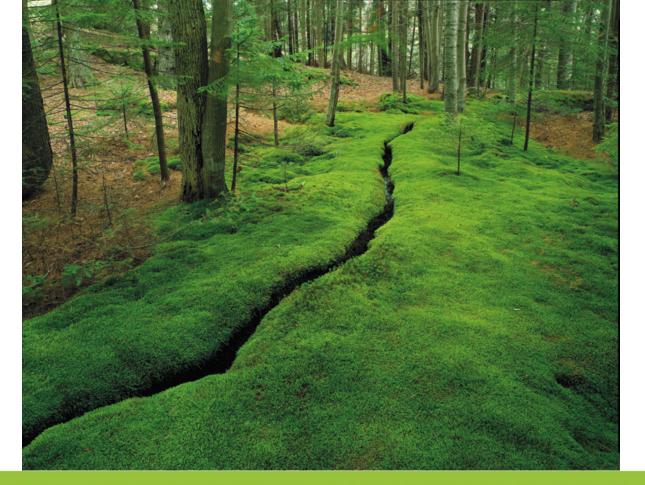
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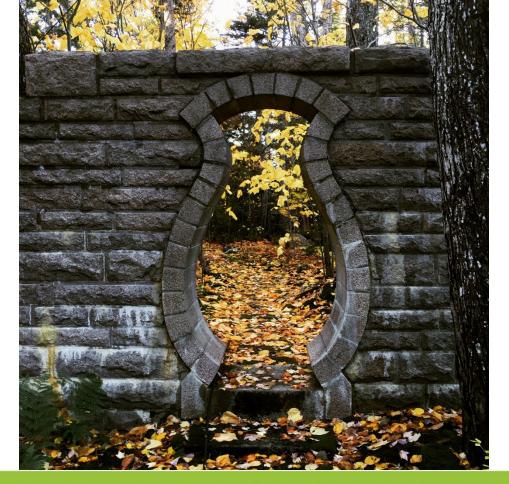














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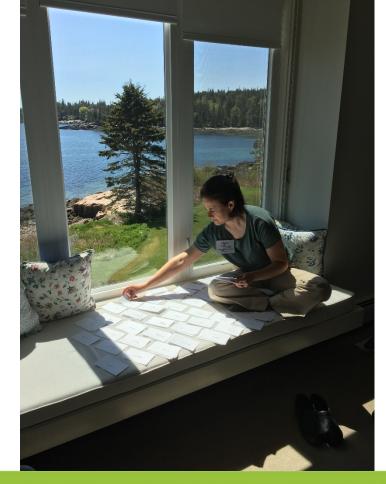














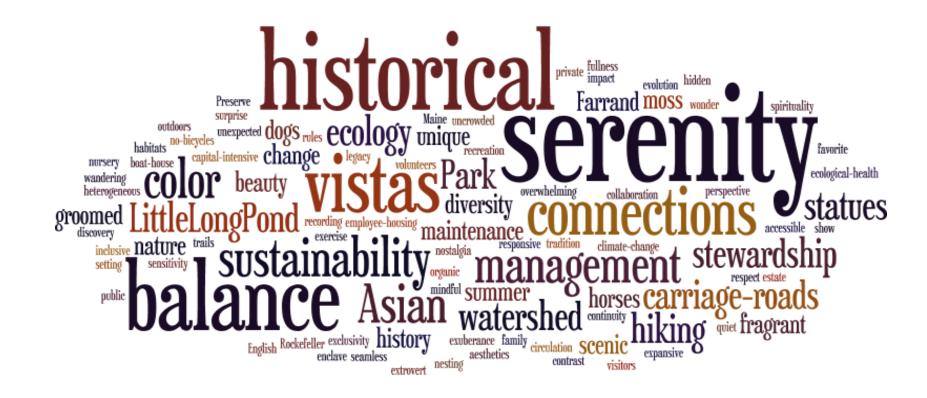














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