



FAIRFAX COUNTY PARK AUTHORITY



M E M O R A N D U M

TO: Chairman and Members
Park Authority Board

VIA: Kirk W. Kincannon, Executive Director

FROM: Cindy Walsh, Director
Resource Management Division

DATE: February 22, 2018

Agenda

Resource Management Committee
Wednesday, February 28, 2018 – 5:30 p.m.
Boardroom – Herrity Building
Chairman: Maggie Godbold
Vice Chair: Linwood Gorham
Members: Timothy Hackman, Kiel Stone

1. Scope Approval – Ecosystem Restoration at Old Colchester Park and Preserve (with presentation) – Action*
2. Museum Collections Project Update (with presentation) – Information*

*Enclosures



If accommodations and/or alternative formats are needed, please call (703) 324-8563. TTY (703) 803-3354

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March 14, 2018

ACTION (with Presentation)

Scope Approval – Ecosystem Restoration at Old Colchester Park and Preserve (Mount Vernon District)

ISSUE:

Approval of the project scope to plan, design, and permit an Ecosystem Restoration project at Old Colchester Park and Preserve.

RECOMMENDATION:

The Park Authority Director recommends approval of the ecosystem restoration project scope at Old Colchester Park and Preserve to restore rare and native vegetation communities and species.

TIMING:

Board approval of the project scope is requested on March 14, 2018.

BACKGROUND:

The Helping Our Land Heal Program (HOLH) will administer the project. The program was developed based on the successful work from the Ellanor C. Lawrence Forest Management Pilot Project. The goal of this project is to restore and enhance wetland ecosystems at Old Colchester Park and Preserve. The scope works toward achieving Recommended Actions 16 through 19 in the agency-wide Natural Resource Management Plan, complies with the Old Colchester Park and Preserve Master Plan (2015), and fulfills multiple recommendations in the Old Colchester Park and Preserve Natural Resource Management Plan (2011).

The project has two objectives:

1. Design a living shoreline project on approximately 900 linear feet of tidal shoreline.
2. Design a wetland restoration for a 12-acre globally rare wetland ecosystem.

The first objective (living shoreline) focuses on the park's Occuquan River tidal shoreline. A population of a state rare plant, River Bulrush (*Bulboschoenus fluviatilis*), was documented in the park's tidal marsh which is located on the banks of the river. A living shoreline project would restore and create additional tidal marsh habitat that would support and expand the rare plant population, and enhance the shoreline's

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stability to prevent erosion. Consultation with the Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, and Shoreline Erosion Advisory Service was conducted and suitable recommendations from the consultation will be included in the design.

The second objective (wetland restoration) will focus on expansion and restoration of the documented 12-acre globally rare swamp community, named the Coastal Plain Upland Depression Swamp (CEGL006110). A wetland restoration feasibility study was contracted in 2015 and provided the conceptual ground work for a restoration design. Suitable recommendations from the study will be included in the design.

Planning, design, permitting, and construction estimates will be deliverables for both project objectives. The project will take approximately 18 months to complete.

Specific areas for each project component are identified on the map enclosed as Attachment 2.

FISCAL IMPACT:

Based on the scope cost estimate, funding in the amount of \$145,000 is necessary to conduct the project (Attachment 1). Funding is available in the amount of \$145,000 in Fund 800-C80300, Cost Center P515107012 (Vulcan Funds).

ENCLOSED DOCUMENTS:

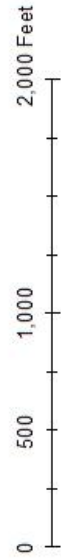
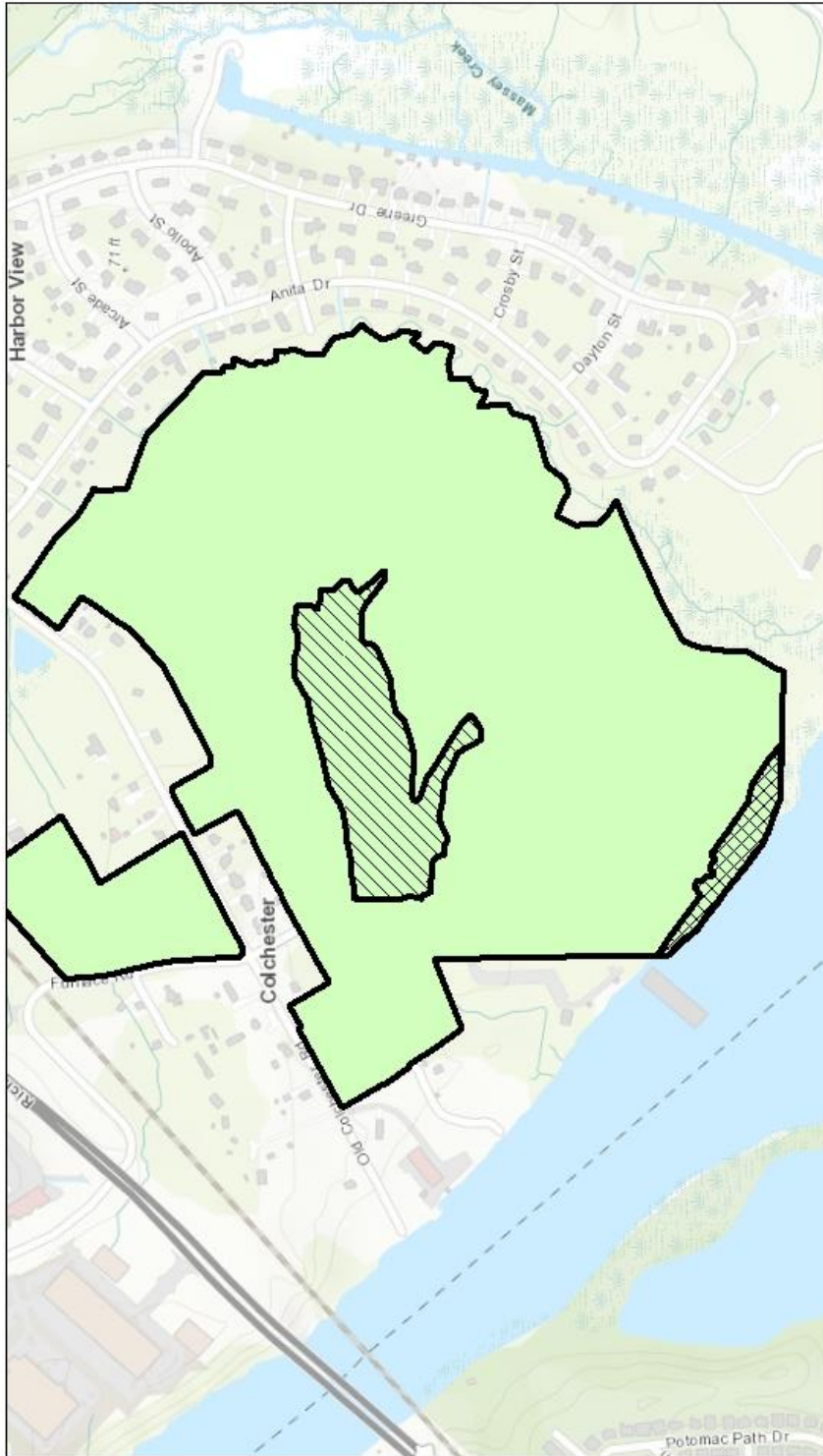
- Attachment 1: Scope Cost Estimate for Old Colchester Park and Preserve Helping Our Land Heal Project
- Attachment 2: Old Colchester Park and Preserve Project Map

STAFF:

Kirk W. Kincannon, Executive Director
Sara Baldwin, Deputy Director/COO
Aimee L. Vosper, Deputy Director/CBD
David Bowden, Director, Planning and Development Division
Cindy Walsh, Director, Resource Management Division
Todd Johnson, Director, Park Operations Division
Barbara Nugent, Director, Park Services Division
John Stokely, Manager, Natural Resources Branch

**Old Colchester Park and Preserve Helping Our Land Heal Project
Scope Cost Estimate**

Project Administration	\$15,000
Living Shoreline Planning, Design, and Permitting	\$50,000
Wetland Restoration Planning, Design, and Permitting	\$80,000
Total	\$145,000



Legend

-  Coastal Plain Depression Swamp Restoration Design
-  Living Shoreline Design
-  Park Boundary

Old Colchester Park and Preserve
Lorton, VA



Ecosystem Restoration

Old Colchester Park and Preserve

Resource Management Committee Meeting

February 28, 2018

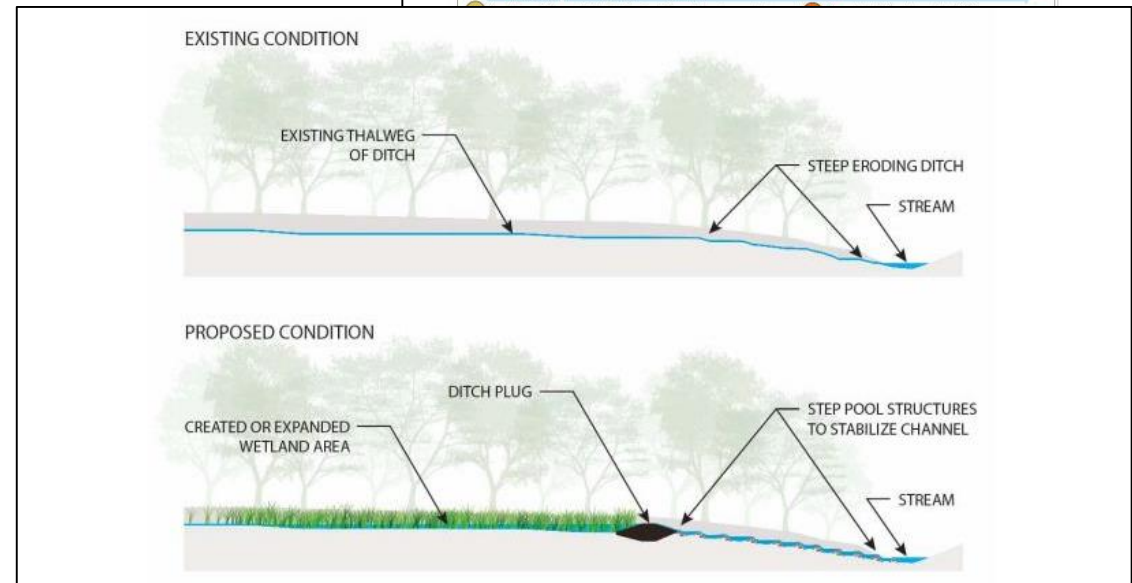
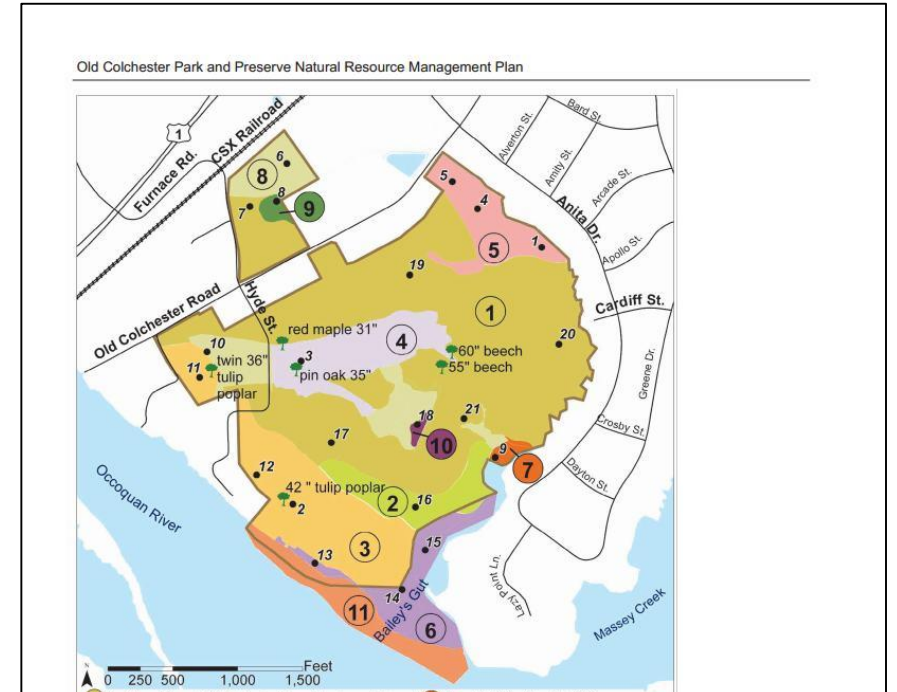
Background

- Natural Resource Management Plan - ~\$70k
- Implemented Projects
 - Aquatic Habitat Restoration - ~\$163k
 - Forest Restoration - ~\$195k
 - Encroachment Prevention - ~\$35k
 - Wetland Restoration - ~\$40k



Wetland Restoration

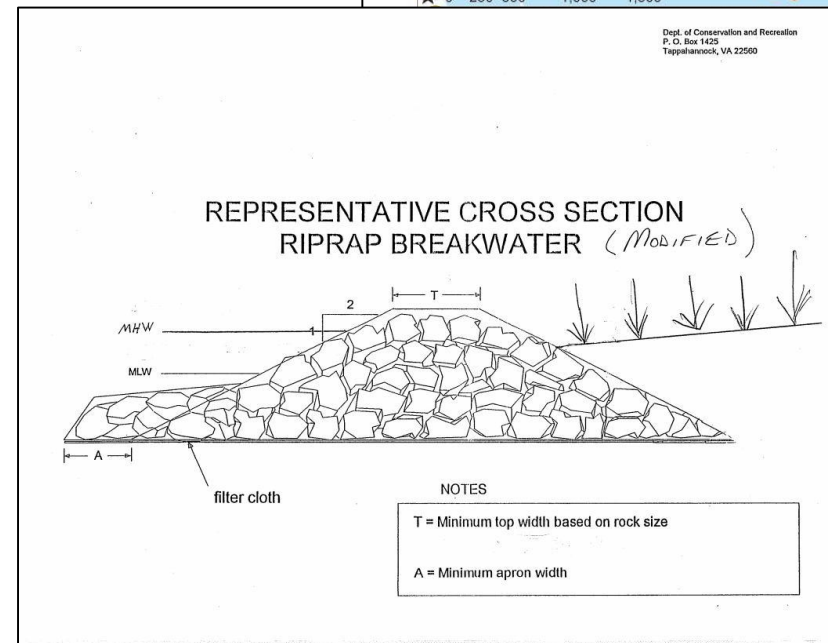
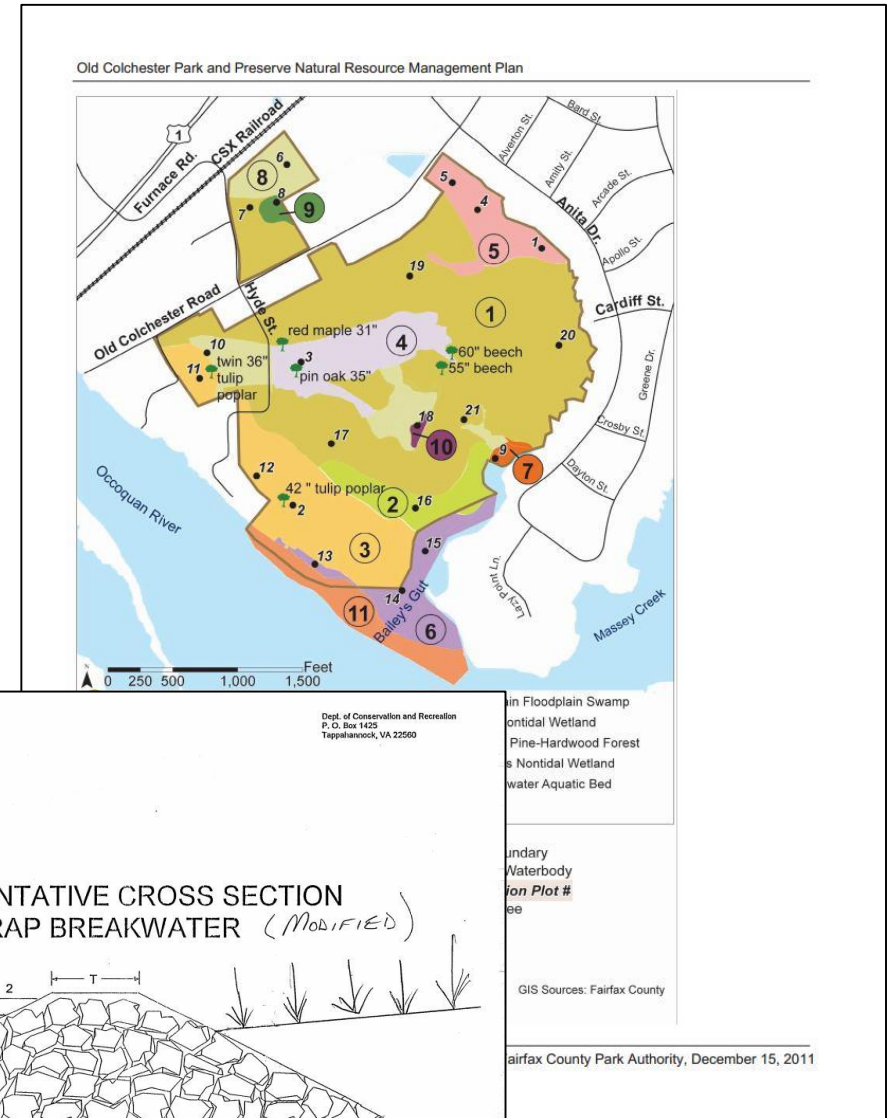
- Restore globally rare wetland community
 - Coastal Plain Depression Swamp (CEGL006110)
- Reverse previous drainage ditching



15, 2011

Living Shoreline

- Buffer and/or expand habitat for rare plant
 - River Bulrush (*Bolboschoenus fluviatilis*)
- Enhance shoreline stability from erosion



Desired Conditions

Wetland Restoration



Living Shoreline



HOW WE TREAT THE LAND HAS LASTING IMPACTS



Questions ?

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INFORMATION (with presentation)

Museum Collections Project Update

Park Authority staff from the Resource Management Division is working with staff from other agency divisions and other interested parties on exploring options for a Collections Facility to house county archaeological and museum collections. Exploration included visits to comparable facilities and discussions with museum professionals and others on options for an appropriate facility. The concept of a purpose-built facility, a retrofitted facility, and a facility that would include use by other partners are all being considered.

This presentation includes a video tour of a National Park Service facility that is a good visual example for the Park Authority Board to see what a collections facility looks like.

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Kirk W. Kincannon, Executive Director

Sara Baldwin, Deputy Director/COO

Aimee L. Vosper, Deputy Director/CBD

Cindy Walsh, Director, Resource Management Division

David Bowden, Director, Planning and Development Division

Todd Brown, Director, Park Operations Division

Judy Pedersen, Public Information Officer

Elizabeth A. Crowell, Archaeology and Collections Branch Manager

David Buchta, Heritage Conservation Branch Manager



Collections Facility Project Team Update

PAB MEETING FEBRUARY 28, 2018

DAVID BUCHTA, HERITAGE CONSERVATION AND MUSEUM
COLLECTIONS BRANCH MANAGER

ELIZABETH CROWELL, ARCHAEOLOGY AND COLLECTIONS
BRANCH MANAGER

Summary:

- ▶ 2016 Bond approved \$2,320,000 for site selection and design of an FCPA Collections Facility
- ▶ Project team - formed August 2017
- ▶ August 2017-February 2018- PDD, RMD visited DC Metro region facilities and adaptive reuse potential buildings
 - ▶ NPS Museum Resource Center, Landover, MD
 - ▶ Office of Historic Alexandria, Alexandria, VA
 - ▶ Gunston Hall, Lorton, VA
 - ▶ Workhouse Site- Lorton, VA (1986 building)

FCPA: ECLP, Museum Collections



FCPA: Frey House, Museum Collections-Overflow



FCPA: James Lee Center, Archaeological Collections



FCPA: Records/Archives



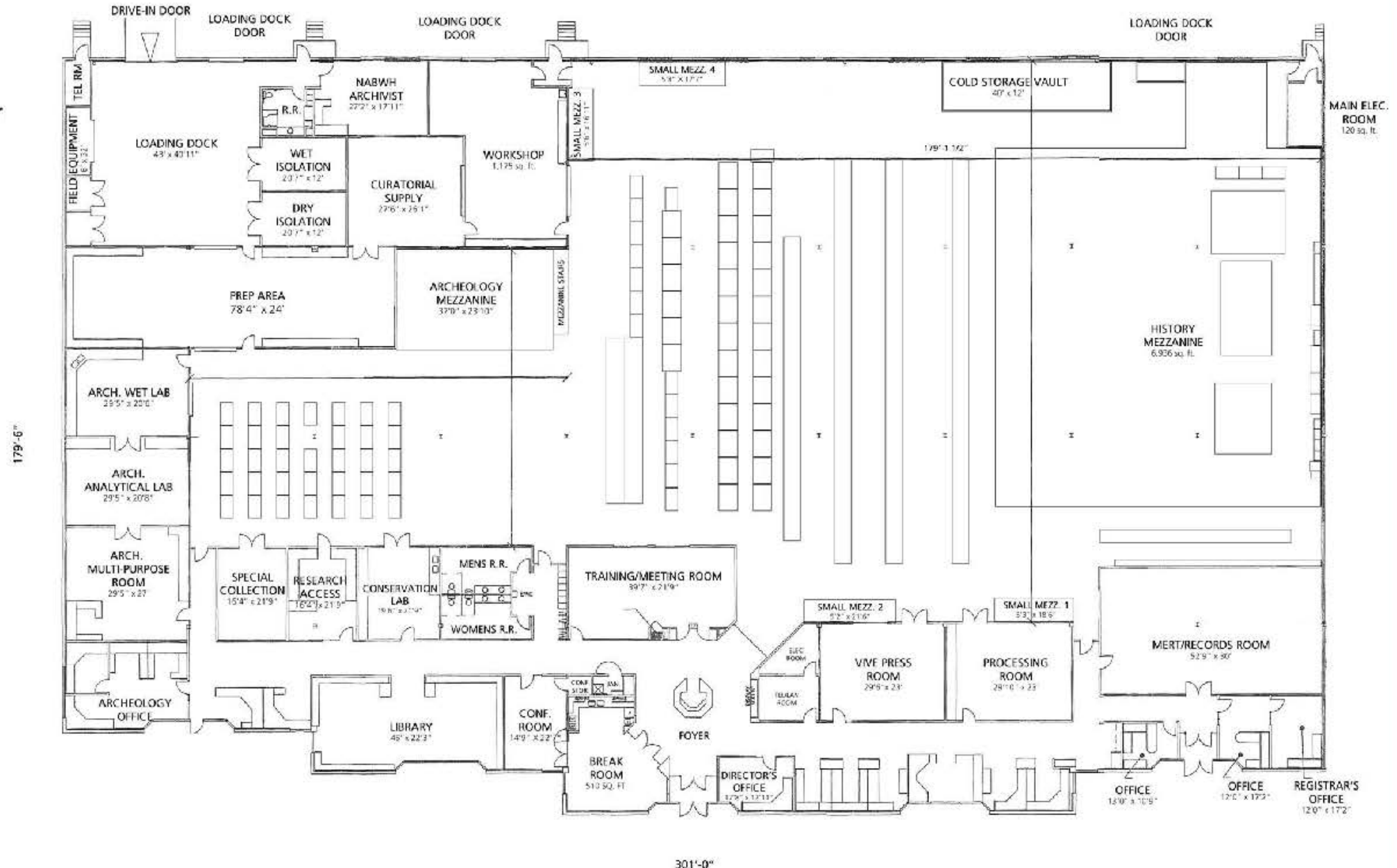
Identified Needs for Collections Facility

- ▶ Cubic feet over square feet
- ▶ Review of 2003 facility report
- ▶ Environmental, fire, pest, and security all critical pieces of the design process
- ▶ Loading dock - deliveries inside and access
- ▶ Building expansion - ceiling height, floor construction, high-density storage
- ▶ Essential staff, Public and office spaces



- ▶ [Introduction to the Museum Resource Center \(MRCE\)](#)
National Park Service, National Capital Region
- ▶ 52,000 square foot facility
- ▶ Objects not currently on exhibit at various historic homes and properties throughout region are stored
- ▶ Archival materials, archaeological artifacts, and natural history specimens also housed here
- ▶ Floor plan: Includes office spaces, collections storage, laboratories, research spaces, loading docks, etc.

Museum Resource Center
 3300 Hubbard Road
 Landover, MD
 Facility Floor Plan



MRCE- NPS

- ▶ Cubic feet vs. square feet
- ▶ Mezzanines/high-density storage/expansion
- ▶ Equipment/storage flexibility



MRCCE- Loading Dock

- ▶ Drive-in ramp
- ▶ Access for semi/van





- ▶ Multi-floor structure - housing records/archives, museum and archaeological collections
- ▶ Processing and curation - separate location
- ▶ Independent HVAC systems for all areas
- ▶ Identified need: space for all collections work
- ▶ 3-year plan to explore alternative storage solutions, including finding/building new facility

Lorton- Workhouse Annex Option FMD Property (Storage)

[Lorton Building](#)



Project Team Next Steps:

- ▶ Select design option for facility - lease, construct, adaptive reuse, cooperative effort
 - ▶ Consultant hired by PDD to develop rough order of magnitude costs (guiding us in selection of a design option)
- ▶ Response to AAM - Accreditation
- ▶ Deaccessioning Project - museum collections
- ▶ Hire consultant for design
- ▶ PAB project team update FY19



Questions

THANK YOU!