“This Museum seeks to help all Americans remember, and by remembering, this institution will stimulate a dialogue about race and help foster a spirit of reconciliation and healing.”

Lonnie Bunch
Four Pillars of the Museum:

• An exploration of African American history and culture

• A lens into what it means to be American

• Telling the African American story in an international context

• A place of collaboration
Timeline to Construction:

• 2003- Enabling legislation (offered four sites)
• 2005- Site selection study
• 2006- Historic preservation consulting parties formed
• 2006- Draft Environmental Impact Statement
• 2008- Architectural and exhibit programing
• 2009- Design architects selected
• 2011/12- Site utilities commence
• 2012- Official Groundbreaking Celebration
Funding and Appropriations:

• Enabling legislation stipulated 50% federal and 50% non-federal funds

• Total project budget $540M:
  • $270M Federal appropriations from FY2005 through FY2015
  • $270M Trust fund contribution
  • Includes:
    • Planning and Design
    • Construction and Construction Management
    • Commissioning
    • Exhibit Design and Fabrications
Integrated Project Management:

- EIS/Section 106
- Master Facilities Planning
- Building Design
- Commissioning
- Gas Line Relocation
- Construction Packages
- Exhibit Design
- Exhibit Fabrication + Installation
- Off-site Collections Facilities
Building Design: 2009-2013

Design Competition

Three Irreducible Elements:
- Corona
- Porch
- Color (Bronze)
Building Design: 2009-2013

Environmental Analysis

Environmental Impact Statement:
Three building concept designs

- National Historic Preservation Act, Section 106
- Consulting parties organized 2006
- Met regularly through 2011
  - Crafted mitigation measures
  - Programmatic Agreement resulting document
  - Adopted by NCPC with EIS ROD Nov 2011
Building Design: 2009-2013

Landscape Concept
Building Design: 2009-2013

Interpretive Galleries

A place of Inspiration reflecting African American Resiliency and Spirituality
Building Design: 2009-2013

Corona Panel
Building Design: 2009-2013

Sustainability

Features achieved:

• Passive solar shading on facade
• Maximized interior day lighting
• Efficient low water plumbing fixtures
• Reduced stormwater run-off with green roofs
• Harvested rainwater for site irrigation and fixture flushing
• Roof top photo voltaic panels for hot water heating
• Enhanced commissioning

Features not achieved:

• Geothermal heat pumps on site
• Shared cooling tower with NMAH
Project Delivery Alternatives:

• Design / Bid / Build (D-B-B)
• Design / Build (DB)
• Integrated Project Delivery (IPD)
• Construction Management at Risk (CMc)
  • Construction Manager takes risk of building the project
  • A-E remains under separate contract to the Owner
  • Overlapping phases

Analysis of methods and risks based on Smithsonian past experience as well as that of other agencies/owners
Construction Schedule Analysis:

Construction Completion Comparison:

- **CMc Delivery:**
  - Start late 2012
  - End late 2015/early 2016

- **Design/Bid/Build Delivery:**
  - End-to-end design: complete late 2013
  - Construction complete 2017

**CM @ Risk Delivery:**
- Issue Concept Design with RFP
- CM selected through “best value” process
- Awarded pre-construction services
Concurrent Design and Construction:

- **Jan 2012**: Site Utilities Package
- **April 2012**: Support of Excavation Wall/Excavation Package
- **May 2012**: Exterior Enclosure Design-Assist Package
- **June 2012**: Deep Foundation Piles Package
- **Sept 2012**: Concrete and Vertical Transportation Package
- **Jan 2013**: Structural Steel Package
- **Mar 2013**: MEP/FP Package
- **Aug 2013**: 100% CDs Complete
- **Jan 2014**: Interior Build-out & Site Work Package (GMP)

**Award Dates:**
- Jan 2012: Site Utilities Package
- April 2012: Support of Excavation Wall/Excavation Package
- May 2012: Exterior Enclosure Design-Assist Package
- June 2012: Deep Foundation Piles Package
- Sept 2012: Concrete and Vertical Transportation Package
- Jan 2013: Structural Steel Package
- Mar 2013: MEP/FP Package
- Aug 2013: 100% CDs Complete
- Jan 2014: Interior Build-out & Site Work Package (GMP)

**Completion Dates:**
- Aug 2013: 100% CDs Complete
- Jan 2014: Interior Build-out & Site Work Package (GMP)
Excavation: 2012-2013
Foundations to Grade: 2013
Large Collections Coordination: 2013
Enclosure & Corona Final Design: 2013-2014

Performance mock-up, York, PA

Commission of Fine Arts & National Capital Planning Commission final approval March 2014
Exhibition Design: 2010-2014

Segregated Rail Car

Military History

Civil War

Middle Passage
Current Construction Progress: 2015
Current Construction Progress: 2015
Current Construction Progress: 2015

Oprah Winfrey Theater

History Gallery
Commissioning: starts 2015
Commissioning: Schedule

<table>
<thead>
<tr>
<th>Project ID</th>
<th>Data Date</th>
<th>National Museum of African American History and Culture Commissioning Schedule</th>
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<tr>
<td>AA42-Cx</td>
<td>26-Jun-15</td>
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### FINAL INSPECTIONS, TESTING & COMMISSIONING

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<th>Task Name</th>
<th>Completion Date</th>
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<tr>
<td>Switchgear A &amp; B</td>
<td>08-Sep-15</td>
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<tr>
<td>Start of Electrical Functional Performance Testing</td>
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<td>Switchgear A &amp; B</td>
<td>08-Sep-15</td>
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<tr>
<td>Transformers/Distribution Panels</td>
<td>14-Sep-15</td>
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<tr>
<td>Generator/Load Bank</td>
<td>08-Oct-15</td>
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<tr>
<td>Generator/Load Bank</td>
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<tr>
<td>Generator/Load Bank</td>
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<tr>
<td>Automatic Transfer Switch Gear</td>
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<tr>
<td>Fire Pump</td>
<td>08-Oct-15</td>
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<tr>
<td>Uninterrupted Power Supply</td>
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### MECHANICAL

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<thead>
<tr>
<th>Task Name</th>
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<tr>
<td>Chilled Water System</td>
<td>14-Sep-15</td>
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<tr>
<td>Fire Smoke Dampers</td>
<td>10-Sep-15</td>
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<tr>
<td>EMS System Operations</td>
<td>10-Sep-15</td>
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<td>Hot Water System (Condensing Boilers)</td>
<td>27-Sep-15</td>
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<tr>
<td>Water Cooled Condensing Units</td>
<td>15-Sep-15</td>
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<tr>
<td>Air Handling Units (CFU)</td>
<td>20-Sep-15</td>
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<tr>
<td>Chilled Beams/Beams</td>
<td>10-Sep-15</td>
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<tr>
<td>Dust Mounded Storage Cells</td>
<td>10-Sep-15</td>
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<tr>
<td>Dust Mounded Stairways</td>
<td>10-Sep-15</td>
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<tr>
<td>Beverage Cell &amp; Fan Coil Units</td>
<td>10-Sep-15</td>
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<tr>
<td>WRV</td>
<td>15-Sep-15</td>
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<tr>
<td>End of Mechanical Functional Performance Testing</td>
<td>04-Jan-15</td>
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### MECHANICAL PLUMBING

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<tr>
<th>Task Name</th>
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<tr>
<td>Air Handling Units</td>
<td>02-Nov-15</td>
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<tr>
<td>Start of Plumbing Functional Performance Testing</td>
<td>02-Nov-15</td>
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<tr>
<td>Cold/Water Booster Pumps</td>
<td>02-Nov-15</td>
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<tr>
<td>Booster Pumps</td>
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<td>Filtered Skid</td>
<td>02-Nov-15</td>
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<tr>
<td>Ground Water Ejector Pump</td>
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<td>Gas Fired Water Heaters</td>
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<td>Hot Water Booster Pumps</td>
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<td>Non-Potable Water Booster Pumps</td>
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<tr>
<td>Sewer Ejector Pumps</td>
<td>02-Nov-15</td>
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</table>

**Legend:**
- **Remainig:** Remaining level of effort
- **Actual:** Actual level of effort
- **Actual:** Actual work
- **Remaining:** Remaining work
- **Critical:** Critical remaining work
- **Milestones:** Milestones

**Status:**
- **In Progress:** In progress, not started.

**Layout Name:** Clatterbuck – Remaining Activities

**Application:** Oracle Corporation
Celebration: November 2015

Cultural and historical significance of 2015:

• 1865; 13th Amendment, abolishing slavery
• 1965; Voting Rights Act
Collections Installation: 2016

- Shackles used to bind enslaved African children on ships crossing the Atlantic, 18th-19th century
- PT-13D Stearman bi-plane used as a trainer by the Tuskegee airmen, about 1944
- Headgear used by Muhammad Ali while training, about 1973
- Louis Armstrong’s trumpet, 1946
Public Opening: 2016