

Smithsonian  
*National Museum of African American  
History and Culture*

***“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



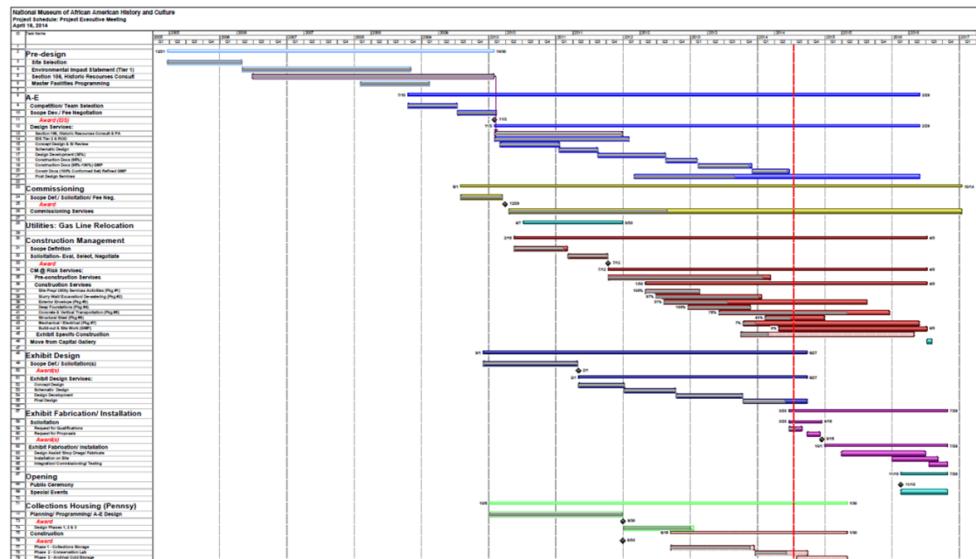


## Funding and Appropriations:

- **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:





# Building Design: 2009-2013

## Design Competition



### Three Irreducible Elements:

- Corona
- Porch
- Color (Bronze)



# Building Design: 2009-2013

## Environmental Analysis



- **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**

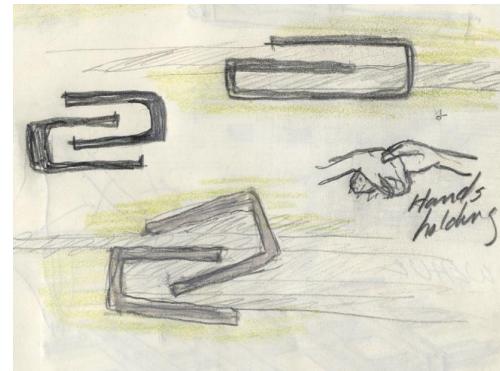
Environmental Impact Statement:  
Three building concept designs





# Building Design: 2009-2013

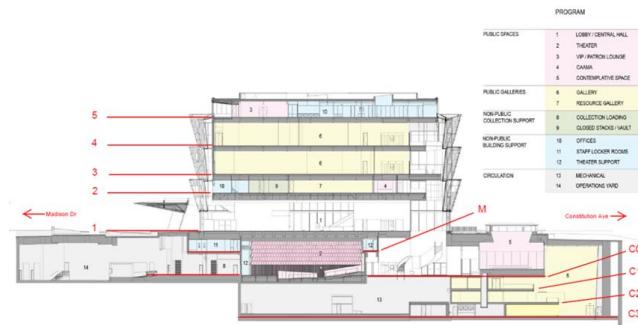
## Landscape Concept





# Building Design: 2009-2013

## Interpretive Galleries

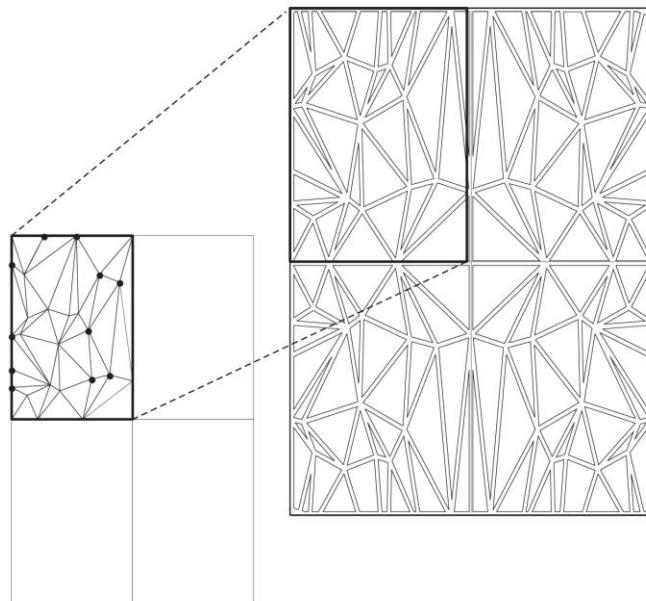


## *A place of Inspiration reflecting African American Resiliency and Spirituality*



# 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

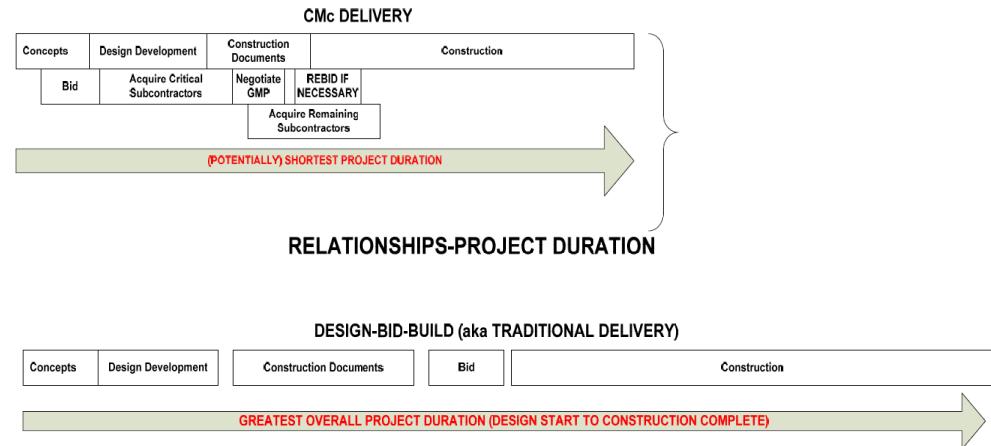
*Analysis of methods and risks based on Smithsonian past experience as well as that of other agencies/owners*



# 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)  |



Smithsonian  
*National Museum of African American  
History and Culture*

## Excavation: 2012-2013





# Foundations to Grade: 2013





## Large Collections Coordination: 2013

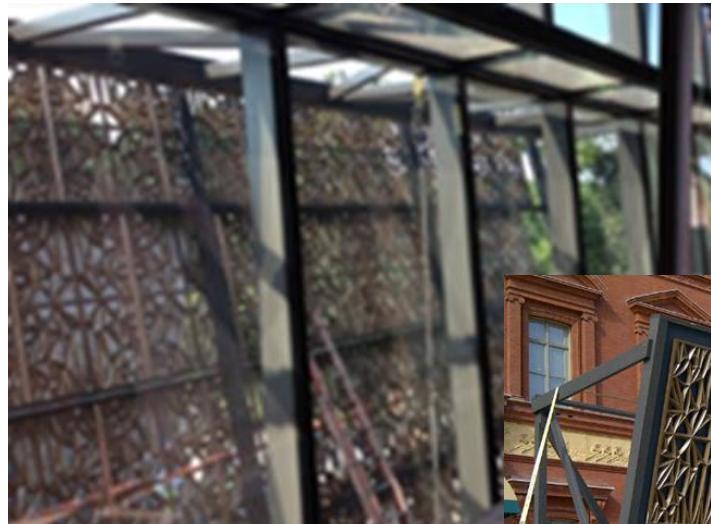




## Enclosure & Corona Final Design: 2013-2014



Performance mock-up, York, PA



**Commission of Fine Arts &  
National Capital Planning Commission  
final approval March 2014**



# Exhibition Design: 2010-2014



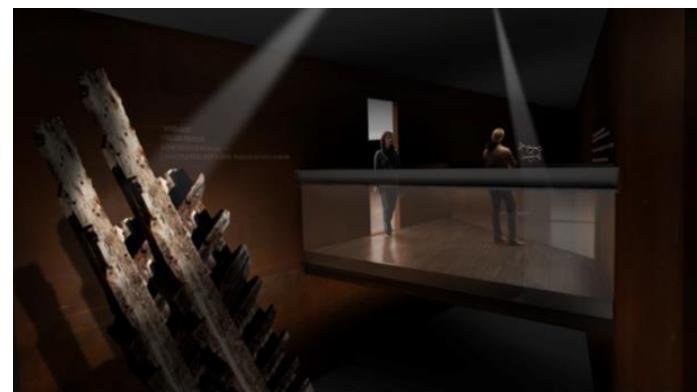
Segregated Rail Car



Military History



Civil War



Middle Passage



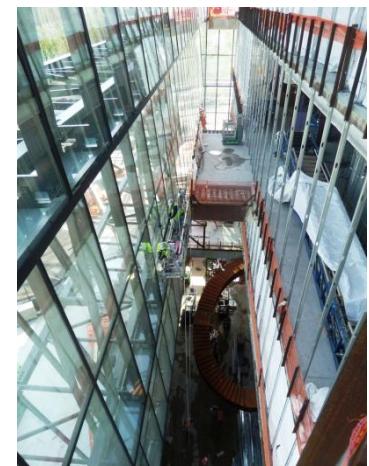
Smithsonian  
*National Museum of African American  
History and Culture*

## Current Construction Progress: 2015





## Current Construction Progress: 2015





# Current Construction Progress: 2015



**Oprah Winfrey Theater**



**History Gallery**



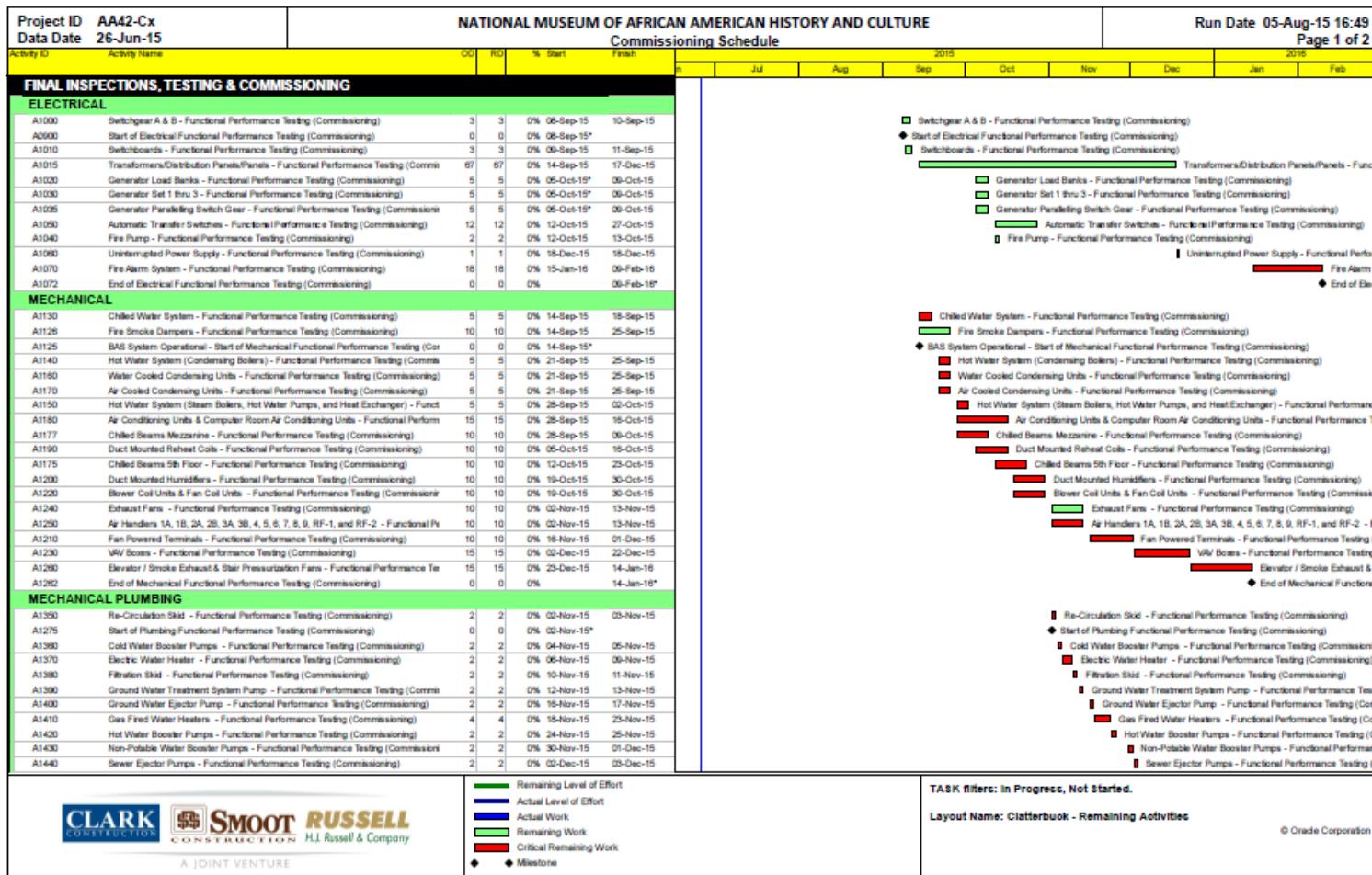


# Commissioning: starts 2015





# Commissioning: Schedule





## 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



Smithsonian  
*National Museum of African American  
History and Culture*

# Public Opening: 2016

