Welcome!
The meeting will begin momentarily.

Thank you for participating in our virtual public consultation meeting!

How to Use Zoom Webinar:

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- Please submit comments/questions in writing through the Q&A function.
- Written comments/questions can be submitted at any time and will be answered or discussed at designated points during the meeting by the panelists.
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NEPA Scoping & Consulting Parties Meeting #3 Part 1 | May 21, 2024
Agenda

Part 1 - May 21, 2024
1. Introduction
2. National Environmental Policy Act - Public Scoping
3. HMSG Mission and Program Aspirations
4. Potential Scope of Improvements
   a. Rooftop Mechanical
   b. Envelope Improvements
5. Schedule and Next Steps

Part 2 - May 22, 2024
1. Introduction
2. Potential Scope of Improvements
   a. Perimeter Revitalization
   b. New Entry from Sculpture Garden
   c. Lower Level Expansion
   d. Lobby Expansion
   e. Plaza Revitalization
   f. Fountain Revitalization
3. Schedule and Next Steps
HMSG | REVITALIZE BUILDING & PLAZA

**Speakers**

- **CHRISTOPHER COOPER**
  SOM

- **MICHAEL BASKETT**
  SELLDORF ARCHITECTS

- **MATT VELKY**
  MUELLER ASSOCIATES

- **LIZ ESTES**
  STANTEC

- **CARLY BOND**
  SMITHSONIAN INSTITUTION

- **MELISSA CHIU**
  HIRSHHORN MUSEUM AND SCULPTURE GARDEN

- **AL MASINO**
  HIRSHHORN MUSEUM AND SCULPTURE GARDEN

- **LAURA SHIPMAN**
  NATIONAL CAPITAL PLANNING COMMISSION
Introduction
1. Fulfill the Hirshhorn’s mandate to provide visitors with transformative art experiences by expanding gallery spaces and improving technological capacities to support current and future needs of the artists of our time.

1. Improve accessibility and circulation for all users throughout the campus, entry sequences, and vertical transportation.

1. Expand and improve amenities, operational, and programming space to enhance the visitor experience and to meet the needs of projected significant increases in visitation and to ensure the highest standards in collection stewardship and museum operations.

1. Ensure the Hirshhorn campus’ code compliance and significantly improve its energy efficiency, sustainability, and resiliency to maximize protection of collections, occupant comfort and safety, operations, and performance.

1. Unify the Hirshhorn Building, Plaza, and Sculpture Garden as a campus that responds to the National Mall and larger Smithsonian context including landscape and the built environment.

1. Strengthen the physical security of the site perimeter and entrances appropriate to the Hirshhorn’s public prominence and location on the National Mall.

1. Respect the integral relationship between the Hirshhorn building and outdoor gallery spaces as an evolving platform for the presentation of modern and contemporary art.
HMSG Revitalization - Phase 1
Building Envelope Repair

The HMSG Building Envelope Repair project was completed in 2023. The primary goals of this project were:

- Improve building envelope performance to reduce energy consumption and protect museum collections with a stable environment
- Improve envelope against water infiltration and condensation at outer drum and roof
- Improve balcony fenestration to improve thermal and accessibility requirements
- Improve safety with upgraded precast and glazing attachments to meet blast requirements
HMSG Revitalization - Phase 2
Sculpture Garden Revitalization

The HMSG Sculpture Garden Revitalization Project construction began in October 2023. The primary goals of this project are:

- Replace failed infrastructure to curb flooding and protect current and future artwork, and plantings
- Reestablish the original underground passage and stairs to the Museum Plaza
- Increase the Hirshhorn’s display of its modern sculpture collection by almost 50%
- Create flexible spaces for the presentation of time-based artwork, large-format sculpture, site-specific installations, and events
HMSG Revitalization - Phase 3
Building and Plaza Revitalization

1. Lower Level Expansion and Sculpture Garden Connection
2. Plaza Revitalization
3. Lobby Expansion
4. Conversion of 4th Floor for Gallery Expansion
5. Mechanical Rooftop
6. Envelope Improvements
Section 106 Consultation

Section 106 of the National Historic Preservation Act (NHPA):

- Hirshhorn Museum and Sculpture Garden (HMSG) contributes to the National Mall Historic District
- HMSG is individually eligible for listing in the National Register of Historic Places
- Section 106 requires federal agencies to consider the effects of their projects on historic properties and seek ways to avoid, minimize, or mitigate any adverse effects

Consulting Parties meetings will review design progress, provide detailed discussions on how the HMSG Revitalize Building and Plaza project may adversely affect historic resources, and provide opportunities to comment

Consulting Parties Meeting #1 - September 12, 2023
Consulting Parties Meeting #2 - December 14, 2023
Project webpage: https://ahhp.si.edu/hirshhorn
Character Defining Features

- **Included in the Determination of Eligibility**
  - Drum-like form and central courtyard
  - Battered perimeter walls
  - Sculptural, cast-in-place concrete piers
  - Precast concrete cladding panels
  - Painted, coffered concrete ceiling structure
  - Third-story balcony and fenestration
  - Circular fountain in interior courtyard
  - Glazed entrance lobby and revolving doors
  - Magnolia trees at NW corner of the site
  - Setting for the display of sculpture
  - Loading dock ramp, retaining walls, and fence
  - First-floor lobby interior
  - Escalators
  - Terrazzo floors

- **Other Significant Features** (not included in DOE)
  - Underground Passage
  - Views under the drum
  - Pure geometric forms
How to Provide Comments

There are multiple ways to provide public comments on the proposed action:

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2. Submit comments via email to: preservation@si.edu

NEPA Scoping comments must be submitted by May 31, 2024

Section 106 comments may be submitted through June 22, 2024

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NEPA Scoping
NEPA
National Environmental Policy Act

The National Environmental Policy Act of 1969 (NEPA) is legislation that requires Federal agencies to:
- Consider effects of their proposed actions on the natural and human environment
- Consider alternative ways of meeting objectives
- Apply a systematic planning, analysis, and decision-making process
- Factor environmental considerations into decisions
- Involve the public

An environmental assessment, or EA, looks at the potential impacts from the proposed action.

NCPC will serve as the lead and responsible federal agency and work with SI as project owner to comply with NEPA. NCPC and SI will prepare an EA to analyze the environmental impacts of a range of alternatives for this project, in accordance with NEPA. NCPC will be inviting cooperating agencies to participate in the preparation of the EA.

Concurrently, SI will conduct consultation under Section 106 of the National Historic Preservation Act.
Section 106/NEPA Process Overview

Initiate Process

**Section 106**
- Determine undertaking
- Identify area of potential effect and historic properties
- Identify consulting parties and other stakeholders

**NEPA**
- Develop purpose and need
- Identify cooperating agencies

Refine area of potential effect and/or historic properties as needed.
- Determine range of potential environmental impacts
  - Prepare draft Environmental Assessment/Environmental Impact Statement
  - Revise draft Environmental Assessment/Environmental Impact Statement as needed
  - Prepare final Environmental Assessment/Environmental Impact Statement
  - Publish Findings of No Significant Impact/Record of Decision

Access adverse impacts to historic properties
- Revise adverse effects as needed
- Resolve adverse effects
- Develop Programmatic Agreement/Memorandum of Agreement

Proceed with Action

We are here

GRAPHIC COURTESY OF THE NATIONAL CAPITAL PLANNING COMMISSION

Smithsonian Institution
The purpose of the proposed project is to revitalize the building and Plaza of the Hirshhorn Museum and Sculpture Garden (HMSG). This project is the third of three sequential campus revitalization projects that includes the Building Envelope Repair project (completed 2023) and the Sculpture Garden Revitalization project (under construction).

The project is needed to address critical infrastructure and programmatic deficiencies including:

- Entry and circulation accessibility and wayfinding
- Perimeter security and visitor screening
- Rehabilitate the museum building envelope and plaza
- Below grade expansion to support public and back of house spaces, and
- Replacement of building systems that have reached the end of their useful life
NEPA
Primary Issue & Impact Topic

During the scoping process SI and NCPC will review the potential impacts and determine which resources could be impacted. These topics will be fully analyzed in the EA.

Preliminarily, SI and NCPC have identified the following resources for full analysis or dismissal in the EA:

Preliminary Resources for EA Analysis:
- Cultural Resources
- Aesthetics & Visual Resources
- Visitor Use & Experience
- Air Quality
- Climate Change
- Mechanical, Engineering, and Plumbing Systems
- Soils
- Traffic and Transportation
- Noise
- Human Health and Safety
- Water Resources

Resources preliminarily dismissed:
- Wildlife
- Vegetation
- Floodplains
- Environmental Justice
NEPA Public Engagement

“How can I be involved?”

This public scoping meeting is the beginning of the public involvement process.

At this meeting: Smithsonian Institution and NCPC are looking for input on:
- Draft purpose and need statement,
- Range of alternatives
- Potential impact topics for inclusion in the EA

Future opportunities to comment:
- Draft EA publication
- Public meeting during Draft EA public review and comment period
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HMSG | REVITALIZE BUILDING & PLAZA

Q&A

CHRISTOPHER COOPER
SOM

MICHAEL BASKETT
SELLDORF ARCHITECTS

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MUELLER ASSOCIATES

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HIRSHHORN MUSEUM
AND SCULPTURE GARDEN

LAURA SHIPMAN
NATIONAL CAPITAL
PLANNING COMMISSION
HMSG Mission and Aspirations
**Project Goals**

1. Fulfill the Hirshhorn’s mandate to **provide visitors with transformative art experiences** by expanding gallery spaces and **improving technological capacities** to support current and future needs of the artists of our time.

1. **Improve accessibility and circulation for all users** throughout the campus, entry sequences, and vertical transportation.

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1. **Strengthen the physical security of the site perimeter and entrances** appropriate to the Hirshhorn’s public prominence and location on the National Mall.

1. **Respect the integral relationship between the Hirshhorn building and outdoor gallery spaces as an evolving platform for the presentation of modern and contemporary art.**
Plaza
Evolving platform for the presentation of modern and contemporary art

- New outdoor galleries create a diversity of settings for art including monumental contemporary sculpture
- Inner courtyard energized with art and performance
- Infrastructure to support contemporary art forms
- Improved visitor comfort with shade, seating, and sustainable landscape
- Improved wayfinding
Plaza
Evolving platform for the presentation of modern and contemporary art

Dan Graham:
Half Two Way Mirror Cylinder Half Curved Hedge
Plaza
Evolving platform for the presentation of modern and contemporary art

Plaza Event
Hirshhorn Museum, 2022

Performance Art Technical Challenges
Hirshhorn Museum, 2023
Lower Level
Expand amenities and programming space and provide visitors with transformative art experiences

- **53,600 SF** dedicated to public space
  - Expanded Galleries
  - Expanded Auditorium & Events Space
  - Education Spaces
  - Retail/Cafe
  - Connection to the Sculpture Garden
  - Additional Restrooms

- Expanded Lower Level Gallery Advantages:
  - No weight restrictions
  - Increased ceiling heights
  - Larger gallery sizes
  - Orthogonal space unique and flexible to the Hirshhorn campus

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**PROPOSED LOWER LEVEL PROGRAMMATIC PLAN**
Lower Level
Expand amenities and programming space
Lower Level
Expand amenities and programming space

Yvonne Rainer:
HELLZAPOPPIN': What about the bees?
Hosted at National Museum of the American Indian
Lower Level
Provide visitors with transformative art experiences

Pipilotti Rist: Big Heartedness, Be My Neighbor
The Geffen Contemporary at MOCA, Los Angeles Sept 12, 2021 – June 6, 2022
Level 4
Expand amenities and programming space and provide visitors with transformative art experience

- Full floorplate dedicated to exhibition galleries
- Adds 19,000 sf of gallery space
Level 4
Expand amenities and programming space

PRELIMINARY PERSPECTIVE OF LEVEL 4 GALLERY
Level 4
Provide visitors with transformative art experiences

Dan Flavin:
untitled (to Helga and Carlo, with respect and affection)
1974
Level 4
Provide visitors with transformative art experiences

Robert Irwin: All the Rules Will Change
Hirshhorn Museum, April 7- Sept 6, 2016
Museum Aspirations

**EXISTING BUILDING**
- 45% PUBLICLY ACCESSIBLE

**GOAL FOR REVITALIZED BUILDING**
- 62% PUBLICLY ACCESSIBLE
Mechanical Rooftop
Consulting Parties Meeting #2 Comments

- Visible rooftop addition fundamentally alters the Hirshhorn’s appearance and massing
- Highly visible from important vantage points
- Visible rooftop addition will result in significant adverse effects
**Mechanical Rooftop**
Mechanical Equipment Space Needs

Additional 18,000 SF of mechanical equipment required in order to satisfy mechanical system demands:

- Comply with energy recovery requirements
- Increased ventilation requirements
- Increased mechanical zoning requirements
- Higher occupant load
- Increased building area

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**MECHANICAL SPACE DIAGRAM**

- **38,000 SF**
  - Required to accommodate MEP equipment
- **18,000 SF**
  - Additional required for revitalized museum
- **20,000 SF**
  - Allocated for mechanical equipment in current museum
**Mechanical Rooftop**

Fresh Air Intake - Required

To comply with Interagency Security Committee (ISC) Chemical Biological Radiation (CBR) guidelines fresh air intake for the building must come from a minimum of **100’** from areas where vehicles may be stopped with their engine running and **40’** above finish grade.

Fresh air intake requires:

- Four Dedicated Outdoor Air System (DOAS) units (27’ x 20’ each)
- Plus four Air Handling Units of similar size
Mechanical Rooftop
Pinch Point at Piers

Available Shaft Space 285 SF

Majority of available pier space is dedicated to required egress and elevators
New Mechanical System Distribution

Shaft space required if all MEP equipment remained at Lower Level: ~1,100 SF

Shaft space available: 285 SF
HMSG | REVITALIZE BUILDING & PLAZA

Mechanical Rooftop
Split System Strategy

We have located the minimum amount of equipment on the roof to avoid impact to the piers and to meet code requirements for fresh air intake.
Mechanical Rooftop
Enclosed Equipment

The mechanical equipment area at the rooftop is required to be fully enclosed in order to:

- Greatly reduce the risk of waterproofing issues by limiting the number of penetrations over galleries and collections
- Prolong the life of equipment by not being exposed to the elements
- Increase flexibility of mechanical routing
- Provide safer and easier access for maintenance
- Allow for full obscurity of mechanical equipment from all vantage points
Mechanical Rooftop
As Shown at Consulting Parties #2 - Dismissed
Shown At 13'-6" Above Existing Parapet

13'-6" FROM TOP OF PARAPET
Mechanical Rooftop

Concept 1: Equal Offset From Parapet
Shown At 10'-9" Above Existing Parapet

10'-9" FROM TOP OF PARAPET

10'-9" FROM TOP OF PARAPET

8'-4" 7'-8"

7'-8"

ROOFTOP PROPOSED
SHORTER VOLUME
REDUCED PROGRAMMED SPACE,
RECONFIGURED MECHANICAL
EQUIPMENT
Mechanical Rooftop

Concept 2: Biased To Inner Parapet
Shown At 10'-9" Above Existing Parapet
Mechanical Rooftop
Cons of Mechanical Equipment on Level 4

- **Access:** Both installation and maintenance of mechanical equipment on Level 4 would require restructuring of the existing roof structure given the size of required equipment
- **Water infiltration:** equipment on level 4 adds risk by having leak prone mechanical spaces within the building and above spaces for art. Additionally, several roof penetrations would be required, further increasing the risk of water infiltration
- **Acoustics:** equipment on level 4 would have a noise impact on to adjacent spaces and below
- **Program:** dedicating the fourth floor to MEP would drastically reduce the amount of public exhibition space available to the Museum
Mechanical Rooftop
As Shown at Consulting Parties #2 - Dismissed
Shown At 13'-6" Above Existing Parapet

National Mall
Mechanical Rooftop

Concept 1: Equal Offset From Parapet
Shown At 10'-9" Above Existing Parapet
Mechanical Rooftop

Concept 2: Biased To Inner Parapet
Shown At 10'-9” Above Existing Parapet
HMSG | REVITALIZE BUILDING & PLAZA

Mechanical Rooftop
As Shown at Consulting Parties #2 - Dismissed
Shown At 13'-6" Above Existing Parapet

National Museum of Natural History
Mechanical Rooftop
Concept 1: Equal Offset From Parapet
Shown At 10'-9" Above Existing Parapet

National Museum of Natural History
Mechanical Rooftop
Concept 2: Biased To Inner Parapet
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**Mechanical Rooftop**

Next Steps and Goals

Reduce mechanical rooftop enclosure to lowest height possible.

Study form, articulation, and materiality to develop the most minimal rooftop enclosure.
Envelope Improvements
Envelope Improvements
Character Defining Features

THIRD-STYLE BALCONY AND FENESTRATION
DRUM-LIKE FORM AND CENTRAL COURTYARD
BATTERED PERIMETER WALLS
CAST-IN-PLACE CONCRETE COFFERED CEILING
PRECAST CONCRETE CLADDING PANELS
Envelope Improvements
Thermal Improvement Scope

- Provide insulation and air-barrier at inner courtyard facade to meet code requirements and improve energy efficiency
- Mitigate thermal bridges and leakage paths throughout structure to improve thermal performance and manage condensation
- Improve insulation at Plaza and exposed slab at Level 2 to meet code requirements and improve energy efficiency
- Replace lobby and inner courtyard glazing
Envelope Improvements
Precast Scope

Replace precast concrete panels to replace structural attachments, meet blast requirements, and provide air and thermal barriers.
Envelope Improvements
Fenestration Scope

Replace storefront system at lobby and inner courtyard facade to meet blast requirements, improve thermal performance, alleviate condensation, and mitigate UV and heat gain.

Repair and restore balcony cast in place concrete structure.
Envelope Improvements
ASR Scope

Repair or replace perimeter walls as required to properly terminate plaza waterproofing and address alkali-silica reaction.

DOCUMENTATION OF PERIMETER WALL DETERIORATION, 2019
Schedule and Next Steps
# Schedule Milestones

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Consulting Parties Meeting #3 and NEPA Scoping</td>
<td>May 21 and 22, 2024</td>
<td>NEPA Public Scoping Review updated concept design and alternative studies</td>
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<tr>
<td>Site Visit Opportunity - May 29</td>
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<tr>
<td>Concept Review - Commission of Fine Arts</td>
<td>June 20, 2024</td>
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<tr>
<td>Concept Review - National Capital Planning Commission</td>
<td>July 11, 2024</td>
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<tr>
<td>Consulting Parties Meeting #4</td>
<td>Fall 2024</td>
<td>Review updated concept design, Draft Assessment of Effects on Historic Resources</td>
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<tr>
<td>Draft Environmental Assessment</td>
<td>Spring 2025</td>
<td>Public review and comment</td>
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<tr>
<td>Section 106 Consultation and NEPA Analysis</td>
<td>Ongoing through 2026</td>
<td></td>
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<tr>
<td>Design Complete</td>
<td>Spring 2027</td>
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</tbody>
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- Consulting Parties meetings will be virtual
- Meeting attendees will receive 30-day notice of a meeting occurrence
- Virtual meetings paired with optional site visits
Next Steps

Please join SI and NCPC staff on Wednesday, May 29, 2024, from 9:00 – 10:00 am, for a site tour to provide an opportunity to understand the site, proposed project, and its relationship to the National Mall, other museums, and important viewsheds. Please email preservation@si.edu to register for the tour. Tour participants should meet at the Hirshhorn’s south entrance near 7th Street and Independence Avenue.

Please visit the project webpage: https://ahhp.si.edu/hirshhorn

Part 1 and Part 2 presentation material will be available on the project webpage by May 23, 2024

Please submit written comments via email to: preservation@si.edu

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END