Welcome!

The meeting will begin momentarily.

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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.
- Click "Raise Hand" if you would like to speak your comments/questions at designated points with the panelists. A moderator will grant access to your device's microphone.
Smithsonian Institution
Revitalization of the Historic Core
CONSULTING PARTIES MEETING #8
November 30, 2022
PANEL OF SPEAKERS

MODERATOR
Carly Bond, Historic Preservation Specialist, Smithsonian Facilities

PRESENTERS / PANELISTS
Sharon Park, FAIA, Assoc. Director of Historic Preservation, Smithsonian Facilities
Brenda Sanchez, FAIA, Sr. Design Manager, Smithsonian Facilities
Christopher Lethbridge, Architect/Program Manager, Smithsonian Facilities
Lauren Brandes, RLA, ASLA, Smithsonian Gardens
Matthew Chalifoux, FAIA, Sr. Historic Preservation Architect, EYP-Loring, LLC
Anthony Bochicchio, AIA, Project Manager, EYP-Loring, LLC
Faye Harwell, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)
AGENDA

• Review RoHC Revitalize Castle Phased Consultation
• November 15th Consulting Parties Site Visit Recap
• Review Assessment of Effects Report
  • Phase 1 Determinations
  • Preliminary Phase 2 Determinations
• Other Review Topics
  • South Tower Elevator Penthouses + Louvered Penthouse
  • Dual Egress for the Southwest Areaway
• Next Steps

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RoHC Revitalize Castle - Project Schedule

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Date</th>
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<tbody>
<tr>
<td>Installation of Vibration Monitors</td>
<td>October 2022</td>
</tr>
<tr>
<td>Castle Closes – Staff and Collections Moves Completed</td>
<td>February 2023</td>
</tr>
<tr>
<td>Telecommunications Hub Relocation Construction Completed</td>
<td>February 2023</td>
</tr>
<tr>
<td>Castle Construction Start</td>
<td>March 2023</td>
</tr>
<tr>
<td>Portions of Castle Reopen for 2026 Activities</td>
<td>Spring 2026</td>
</tr>
<tr>
<td>Castle Façade and Public Access Area Construction Resumes</td>
<td>Fall 2026</td>
</tr>
</tbody>
</table>
Phased Section 106 Consultation

- March 2023 construction start cannot be delayed
- Project needs more time for Section 106 consultation, design alternatives, and mock-ups
- Phased design and consultation strategy identifies the critical items for Phase 1 (Baseline Project)
- Design work and Section 106 consultation will not stop between Phases
- Programmatic Agreement oversees both Phases

<table>
<thead>
<tr>
<th>Phase 1 (Baseline Project)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 106 Consultation and Final National Capital Planning Commission Approval Complete by March 2023</strong></td>
</tr>
</tbody>
</table>

- Areaways/Window Wells (Locations and Dimensions)
- Seismic Control Joint (Location and Width)
- Extent of Excavation Adjacent to the Castle - SIB Extension (B1 Level), B2 Level Cistern
- Excavation Beneath the Castle
  - Base Isolation
  - Lowering of the Basement Level
  - Future Quadrangle Building Connection
  - Mechanical Distribution Level
- Alternate Pedestrian Routes
- Cumulative Effects
### Phased Section 106 Consultation

#### Phase 2
**Section 106 Consultation Continues through 2023**

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<th>Phase 2 Components</th>
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<td>Areaways and Window Wells Finishes and Railings</td>
<td>New Basement Windows</td>
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<tr>
<td>Seismic Control Joint Cover Plate Finishes</td>
<td>Basement Egress Doors</td>
</tr>
<tr>
<td>South Tower Elevator</td>
<td>Egress Doors Interior Effects</td>
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<tr>
<td>South Tower Elevator Interior Effects</td>
<td>South Entrance – Accessibility</td>
</tr>
<tr>
<td>Emergency Generator</td>
<td>North Entrance - Accessibility</td>
</tr>
<tr>
<td>Landscape</td>
<td>Cumulative Effects</td>
</tr>
<tr>
<td>Perimeter Security</td>
<td>Lightning</td>
</tr>
<tr>
<td>Lighting</td>
<td>Roof Replacement</td>
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<tr>
<td>Roof Replacement</td>
<td>Roof Modifications – Energy Improvements</td>
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<tr>
<td>Roof Modifications – Energy Improvements</td>
<td>Rooftop Mechanical Vents</td>
</tr>
<tr>
<td>Rooftop Mechanical Vents</td>
<td>East Wing – 4th Floor Egress</td>
</tr>
<tr>
<td>East Wing – 4th Floor Egress</td>
<td>Windows</td>
</tr>
<tr>
<td>Windows</td>
<td>Windows Interior Effects</td>
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<tr>
<td>Windows Interior Effects</td>
<td>Basement Level Interior Alterations</td>
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<tr>
<td>Basement Level Interior Alterations</td>
<td>Exterior Masonry Restoration (Including Plan B)</td>
</tr>
<tr>
<td>Exterior Masonry Restoration (Including Plan B)</td>
<td>Cumulative Effects</td>
</tr>
</tbody>
</table>
CONSULTING PARTIES SITE VISIT
NOVEMBER 15, 2022
SMITHSONIAN INSTITUTION BUILDING (SIB)

CONSULTING PARTIES SITE VISIT
NOVEMBER 15, 2022

GRANITE SAMPLES
L to R:
VIRGINIA MIST
OLYMPIC BLACK
ACADEMY BLACK
COMMENT SUMMARY | COVER PLATE

- Consensus that not adding the granite edge strip in front of the cover plate was better - "The smaller the insertion the better."
- Consensus that of the three gray range granite samples that "Virginia Mist" was the preferred option
- Concerns about the added width of the metal strip to provide a square edge for the granite insert
SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL

In-Person Review of Material Samples on September 7, 2022

- Comments from Consulting Parties preferred the samples E (Academy Black) and F (Olympic Black)
- Consulting Parties requested a third gray granite in-between the colors and variety of Samples E and F

In-Person Review of Material Samples on November 15, 2022

- Comments from Consulting Parties preferred Virginia Mist

Six Granite Alternatives Available for Consideration at Each Viewing Location

A: Royal Auburn, Coldspring Granite  
B: Prairie Brown, Coldspring Granite  
C: Carnelian, Coldspring Granite  
D: Radiant Red, Coldspring Granite  
E: Academy Black, Coldspring Granite  
F: Olympic Black, Vermont Stone Art

Left to Right:  
VIRGINIA MIST  
OLYMPIC BLACK  
ACADEMY BLACK
Conceptual bollard configuration inside porte-cochere

Conceptual bollard configuration at west side of porte-cochere with hardened bench massing taped-out on pavement
SMITHSONIAN INSTITUTION BUILDING (SIB)

PERIMETER SECURITY ELEMENTS
COMMENTS FROM CONSULTING PARTIES
SEPTEMBER 7, 2022

EXPLORE ELIMINATING WRAP-AROUND END
EXPLORE ELIMINATING BENCH, USE BOLLARDS ONLY
EXPLORE MOVING BOLLARDS NORTH
EXPLORE SHORTENING BENCH BY ONE OR TWO SECTIONS

EXPLORE BENCH DESIGN WITHOUT A STONE BASE

POTENTIAL THIRD BOLLARD MAY BE NEEDED FOR ANTI-RAM CERTIFICATION

12-3
SMITHSONIAN INSTITUTION BUILDING (SIB)

NO WRAP-AROUND END, SHORTENED BENCH
REVIEWED AT CONSULTING PARTIES MEETING 7
ON-SITE MOCK-UP NOVEMBER 15, 2022

*Curb at lawn to be adjusted for seismic joint
SMITHSONIAN INSTITUTION BUILDING (SIB)

CONSULTING PARTIES SITE VISIT
NOVEMBER 15, 2022

COMMENT SUMMARY | NORTH ENTRY

- Shortening the freestanding benches flanking the porte cochere to engage four bollards is preferred.
- Changing the end of the benches to a square end as opposed to rounded is preferred.
- Support the approach of adding a decorative end panel to the benches.
- As the bench is detailed further study of the height of the back is anticipated.
- Support the adjusted lengths of the benches to the east and west at the entry to the sloped sidewalks/ramps to the North Tower.
SMITHSONIAN INSTITUTION BUILDING (SIB)

PERIMETER AT JEFFERSON DRIVE
PREVIOUS DESIGN - CONSULTING PARTIES SITE VISIT
SEPTEMBER 7, 2022
ASSESSMENT OF EFFECTS REPORT
PHASE 1 CONSULTATION
### Assessment of Effects on Historic Resources

**Table:**

<table>
<thead>
<tr>
<th>Feature/Action</th>
<th>Design Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Pedestrian Routes</td>
<td>- Limit of Disturbance for Phase 1 construction activities will temporarily affect part of Jefferson Drive, Foggy Rose Garden, and Haupt Garden. - Existing pedestrian pathways south of the Castle will be blocked. Alternate pedestrian routes are required to access the Haupt Garden and the Quadrangle Building programs.</td>
</tr>
</tbody>
</table>

**Images:**

- Alternative pedestrian route around the Castle's west side.
- Alternative pedestrian route around the Castle's east side.

**Additional Information:**

- Phase 1 construction activities will be completed and demobilized by Spring 2023.
- Portions of the alternate pedestrian route around the Ribey-Peterson will be accessible walkways with handrails.
- Pedestrian routes around the Castle's east side must open the excavation work and project limit of disturbance using temporary pedestrian bridge structure with access ramps.
- Alternate pedestrian routes will remain in place during the entire RoHC Revitalize Castle construction (Phases 1 and 2).
- Alternate pedestrian routes will have a temporary adverse effect on the Castle and its setting. This adverse effect is conditional and will be rectified after the demobilization of construction activities in 2023.
- Historical materials will be salvaged and reinstalled in their original locations. Plantings and turf will be restored.
- Abatement of pedestrian access and circulation during construction is in accordance with Blueprint 7.0 (Implementation of Projects - Campus Circulation) of the South Mall Master Plan Programmatic Agreement.

**Webpage:**

- Assessment of Effects report is available on the project webpage: [https://www.sifacilities.si.edu/historic-core](https://www.sifacilities.si.edu/historic-core)

- Phase 2 effect determinations are preliminary based on the current level of design development.

- Assessment of Effects report will be updated in consultation to finalize Phase 2 effect determinations.

- Discussion topic today is to finalize the Phase 1 effect determinations for the project schedule and development of the Programmatic Agreement.
## SMITHSONIAN INSTITUTION BUILDING (SIB)

### INTERIOR CHARACTER DEFINING FEATURES

- **CHARACTER DEFINING INTERIOR FEATURES ADDED TO THE AOE REPORT**
- **CERTAIN INTERIOR ACTIONS CONNECTED TO EXTERIOR CHANGES ARE INCLUDED IN SECTION 106 CONSULTATION**

<table>
<thead>
<tr>
<th>CHARACTER DEFINING FEATURE</th>
<th>NOTES</th>
</tr>
</thead>
</table>
| Great Hall (Lower Main Hall) Interior | - Space is truncated by c. 1940 end walls. Full length mezzanine was removed in 1914.  
- Ornamental plaster and flat plaster walls scored to represent stone coursing. Plaster column bases were replaced with granite in 1989.  
- Terrazzo flooring sections from 1889 remain. |
| Upper Great Hall (Upper Main Hall) Interior | - Spatial proportions are obscured with infill construction c. 1968.  
- Ornamental plaster window surrounds are the only surviving historic features. |
| Basement Interior | - Utilitarian spaces with masonry floors and walls. Brick groin vaults supporting the first floor above are exposed.  
- Renwick era masonry partitions are distinguished by semi-circular brick arched door openings. Later door openings have segmental arch headers.  
- Modern conduit and mechanical pipes obscure the groin vaults and diminish the character of the space. |
| South Tower Interior | - Children’s Room at the first floor c. 1901. Mosaic tile floor, decorative finishes, and figurative ceiling treatment were restored in 1989. Non-historic platform and accessible lift occupy half of the space.  
- Apparatus Room at the second floor c. 1900. Modifications in 1968 converted this room to mechanical space. Portions of the decorative mosaic tile floor remain.  
- Regents’ Room at the third floor features ornamental and flat plaster, and decorative mosaic tile flooring in the outer vestibule. |
INTRODUCTION OF NEW AREAWAYS AND WINDOW WELLS
Adverse Effect
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH AREAWAYS | EXISTING CHARACTER

[Images of existing character in the south areaways]

SECTION

PLAN

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH AREAWAYS | EXISTING CHARACTER

SOUTHWEST AREAWAY

SOUTHEAST AREAWAY

SOUTHEAST AREAWAY
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED AREAWAYS AND WINDOW WELLS

LEGEND
- NEW AREAWAY
- MODIFIED EXISTING ENTRANCE

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

OVERALL PROPOSED ELEVATION (NORTH)
SMITHSONIAN INSTITUTION BUILDING (SIB)

OVERALL PROPOSED ELEVATION (SOUTH)
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTH LANDSCAPE | EXISTING CHARACTER

A. SOUTH LANDSCAPE LOOKING NORTHEAST

B. SOUTH LANDSCAPE LOOKING NORTHWEST
Areaways are sized to provide egress paths and to align with the Castle's massing.

Egress areaways contain stairs, and fall protection railings with a gate to egress at grade.
• Proposed below-grade areaways and window wells alter the Castle's relationship with the ground plane.
• Areaways will expose new portions of the foundations, with options for surface treatments and materials to minimize adverse effect, pending mock-ups and design development in Phase 2 of 106 consultation.
SOUTHWEST AREAWAY | SINGLE EGRESS
VIEW FROM LANDSCAPE
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTHWEST AREAWAY LAYOUT (ALTERNATIVE WITH DUAL EGRESS)

PARTIAL PLAN | SOUTHWEST AREAWAY (ALTERNATIVE)

LEGEND
- HISTORIC SENeca SANDSTONE
- GRANITE 1 (CAPSTONE + JOINT COVER AT GRADE)
- GRANITE 2 (STAIR, STAIR LANDING, PLANTER)
- PAVER ON PIEDESTAL
- METAL GRATE ON DUNNAGE + ACCESS HATCH
- PARGED CONCRETE WALL
- FINISHED CONCRETE (CURVED PLANTER)
- FORMLINER CONCRETE WALL
- METAL HANDRAIL/GUARDRAIL
- GLASS GUARDRAIL

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTHEAST AREAWAY LAYOUT (ALTERNATIVE WITH DUAL EGRESS)

PARTIAL PLAN | SOUTHEAST AREAWAY (ALTERNATIVE)

LEGEND
- HISTORIC SENECA SANDSTONE
- GRANITE 1 (CAPSTONE + JOINT COVER AT GRADE)
- GRANITE 2 (STAIR, STAIR LANDINGS, PLANTER)
- PAVER ON PEDESTAL
- METAL GRATE ON DUNNAGE + ACCESS HATCH
- PARGED CONCRETE WALL
- FINISHED CONCRETE (CURVED PLANTER)
- FORMLINER CONCRETE WALL
- METAL HANDRAIL/GUARDRAIL
- GLASS GUARDRAIL
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTHWEST AREWAYS | COMPARISON

- Limits number of egress points to grade, from a security standpoint
- Shared egress path for efficiency
- Minimizes stair runs
- Continuous edge along landscape simplifies railing geometry

- Base of octagon tower partially revealed at grade
- Additional seismic joint cover brought to grade
- Additional stair run required
- Two exit points to be monitored

SINGLE EGRESS

- Areaways, egress stairs, window wells, and their fall protection railings will be visible within the setting at the base of the Castle. Railing design alternatives will be finalized in Phase 2 of 106 consultation.
- Existing hardscape pedestrian paths in the Haupt Garden will be maintained, which restricts some visibility in combination with the landscape plan and may minimize adverse effect.
- Adverse effect may be minimized through maintaining the landscape character within the Haupt Garden and setting north of the Castle. Landscape plan and plantings will be finalized in Phase 2 of 106 consultation.
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTHWEST AREAWAYS | ADDITIONAL ALTERNATIVE WITH DUAL EGRESS

PARTIAL PLAN | SOUTHWEST AREAWAY (ADDITIONAL ALTERNATIVE)
SMITHSONIAN INSTITUTION BUILDING (SIB)

SOUTHEAST AREAWAYS | COMPARISON

- LIMITS NUMBER OF EGRESS POINTS TO GRADE, FROM A SECURITY STANDPOINT
- SHARED EGRESS PATH FOR EFFICIENCY
- MINIMIZES STAIR RUNS

SINGLE EGRESS

- BASE OF SOUTHEAST TOWER PARTIALLY REVEALED AT GRADE
- ADDITIONAL SEISMIC JOINT COVER BROUGHT TO GRADE
- ADDITIONAL STAIR RUN REQUIRED
- TWO EXIT POINTS TO BE MONITORED

SEPARATED EGRESS
SMITHSONIAN INSTITUTION BUILDING (SIB)

TYPICAL WINDOW WELL

*NO SEISMIC JOINT COVERS REQUIRED IN WINDOW WELLS*
INSTALLATION OF SEISMIC CONTROL JOINTS AROUND THE CASTLE PERIMETER

Adverse Effect
SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL

- Seismic base isolation joint is required around the entire Castle perimeter.
- Seismic control joint must be as regular as possible around the Castle's unique footprint.

SEISMIC MOAT WITH JOINT COVER (AT GRADE)
JOINT COVER (IN AREAWAYS / WINDOW WELLS)
JOINT COVER ANCHORED TO NEW CONCRETE 1,040 LINEAR FEET
ALL OTHER LOCATIONS ANCHORED TO HISTORIC SANDSTONE 335 LINEAR FEET
• Seismic control joint is associated with base isolation, which separates the building from the ground motion. Base isolation is achieved by creating a plane of separation between the superstructure and the foundations.
• Seismic control joint covers the seismic moat to prevent water infiltration.
• Seismic control joint cover is not required in the proposed window wells because water infiltration is handled through floor drains.
• Seismic base isolation joint will be incorporated into the recessed areaways and under projecting building elements such as the porte cochere and east entrance stairs.
• Seismic base isolation provides protection for the Castle with minimal visual impact. Seismic base isolation avoids the installation of visually intrusive steel and cable supports.
SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL

- Adverse effect is minimized through limiting the width dimensions and the control joint cover plate edge treatment.
- Seismic control joint will have an at-grade cover plate to prevent water infiltration into the joint.
- Seismic control joint moat cover is 1’2” in width, but the overall visual assembly width varies to account for buttresses or other architectural features.
SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL – JOINT OPTION 1A

- Seismic control joint will be visible immediately adjacent to the base of the Castle at-grade, and visible around the porte cochere in the sidewalk. This has an adverse effect on the Castle and National Mall Settings.

SECTION OF SEISMIC JOINT COVER BETWEEN BUTTRESSES – ANCHORED TO NEW CONCRETE

Conceptual Seismic Joint Cover Visualization
SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL – JOINT OPTION 1B

• Adverse effect may be minimized through selection of seismic cover plate materials pending mock-ups and design development in Phase 2 of 106 consultation.
Questions or Comments

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Carly Bond, Historic Preservation Specialist, Smithsonian Facilities

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Anthony Bochicchio, AIA, Project Manager, EYP-Loring, LLC
Faye Harwell, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)
EXTENT OF EXCAVATION ADJACENT TO CASTLE - SIB EXTENSION (B1 LEVEL), B2 LEVEL CISTERNS

Conditional No Adverse Effect
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – SIB EXTENSION

- SIB Extension aligns with the depth of the B1 level of the Quadrangle Building.
- SIB Extension provides connection to the existing Quadrangle loading dock, and spaces for service functions to support the Castle.
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – BUILDING SECTION

- Excavation occurs adjacent to the Castle for the SIB Extension at the B1 level proposed in an unexcavated area between the Quadrangle and Castle.
- SIB Extension will be 23’ below-grade.
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – LEVEL B0

- EXTENT OF EXCAVATION
- BELOW GRADE CONSTRUCTION

EXISTING STEAM TUNNEL
LOWERED PORTION OF STEAM TUNNEL

THE CASTLE
SIB EXTENSION BELOW
QUADRANGLE BUILDING
RIPLEY CENTER
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – LEVEL B2

- Stormwater management cistern will be located at the B2 level adjacent to the west of the Castle.
EXCAVATION BENEATH THE CASTLE - BASE ISOLATION, LOWERING OF THE BASEMENT LEVEL, FUTURE QUADRANGLE BUILDING B2 CONNECTION, AND MECHANICAL DISTRIBUTION LEVEL

Conditional No Adverse Effect
• Mechanical distribution level is aligned with the existing Quadrangle loading dock, Quadrangle B1 level, and the SIB Extension.
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – BUILDING SECTION

- Basement floor level (B0) will be lowered 3’ to accommodate public use and programming.
- Seismic base isolation will be inserted.
- New mechanical distribution level (B1) with a 15’ floor to ceiling height is proposed below the Castle basement for building specific mechanical equipment.
SMITHSONIAN INSTITUTION BUILDING (SIB)

LONGITUDINAL SECTION – EAST-WEST

- Mechanical distribution level is proposed at 15’ for sufficient space for equipment operations and maintenance.
• Excavation of the B0 and B1 levels has the potential to adversely affect historic fabric such as the existing floor material and the “reverse arch” construction that may exist below grade, and by altering the historic character of the existing basement.
• Consideration of these interior alterations will be part of Phase 2 of 106 consultation.
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – LEVEL B2

- B2 level will contain an excavated but not enabled future connection to the Quadrangle Building B2 level.
CONDITIONAL NO ADVERSE EFFECT
Excavation Adjacent to and Beneath the Castle

- There is the potential for construction related adverse effects from excavation or building vibration.
- Excavation for this project is connected to Stipulation 7.C (Monitoring of Adjacent Historic Properties) of the South Mall Master Plan Programmatic Agreement which requires monitoring adjacent to historic properties.
- Effects of excavation adjacent to and beneath the Castle may not be adverse provided the following conditions are met:
  1. Pre-construction monitoring is carried out to establish a baseline for movement and vibrations (Note: this monitoring is already underway);
  2. A Monitoring Plan will be prepared to identify safe vibration limits based upon the pre-construction monitoring;
  3. Monitoring will be carried out for entire project duration to measure vibration during the proposed excavation and other construction activities;
  4. Construction activities will be temporarily halted should any vibration, settlement, or unanticipated circumstances exceed the safe limits outlined in the pending Monitoring Plan; and
  5. If safe limits are exceeded, the SI shall stop work, notify the Signatories and other parties as appropriate, and follow Stipulation 8 (Emergency Actions) of the South Mall Master Plan Programmatic Agreement.
CREATION OF ALTERNATE PEDESTRIAN ROUTES FOR CIRCULATION AROUND THE CASTLE

Conditional No Adverse Effect
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION

- Limit of Disturbance for Phase 1 construction activities will temporarily affect part of Jefferson Drive, Folger Rose Garden, and Haupt Garden.
- Existing pedestrian pathways south of the Castle will be temporarily blocked due to construction fencing and ground disturbance activities.

Red hatch line shows the project Limit of Disturbance.

Smithsonian Institution
**Temporary Pedestrian Boardwalk**

- Connects Haupt Garden to West of Ripley Center during construction
- Path raised to avoid tree roots

- Alternate pedestrian routes are required to access the Haupt Garden and the Quadrangle Building programs.

*Alternative pedestrian route around Ripley Pavilion.*
Temporary Pedestrian Boardwalk

- Connects Haupt Garden to West of Ripley Center during construction
- Path raised to avoid tree roots

- Pedestrian route around the Castle's west side is located and slightly elevated to avoid impacts to root systems of mature trees.
Temporary Pedestrian Bridge

- Spans construction excavation
- Jefferson Drive to Haupt Garden
- Ramps at each end for accessibility

- Pedestrian route around the Castle’s east side must span the excavation work and project Limit of Disturbance using a temporary pedestrian bridge structure with accessible ramps.

Alternative pedestrian route around The Castle’s east side.
SMITHSONIAN INSTITUTION BUILDING (SIB)

HAUPT GARDEN ACCESS 2023-2026 | TEMPORARY PATHWAY AT NORTHEAST

Temporary Pedestrian Bridge Structure

- Approximately 120-foot span
- Temporary foundation at each end
- Elevated 2-3 feet above grade
- Accessible ramps at each end

- Alternate pedestrian routes may remain in place during the entire RoHC Revitalize Castle construction (Phase 1 and 2).
CONDITIONAL NO ADVERSE EFFECT

- Hardscape materials will be salvaged and reinstalled in their original locations.
- Maintenance of pedestrian access and circulation during construction is in accordance with Stipulation 7.D (Implementation of Projects – Campus Circulation) of the South Mall Master Plan Programmatic Agreement.
- The creation of alternate pedestrian routes has the potential to adversely affect the Castle’s Setting due to changed pathways and/or landbridge.
- Effects of the alternate pedestrian routes may not be adverse provided the following conditions are met after the completion of construction activities in 2028:

  1. Construction fencing is removed and land disturbance activities are completed allowing returned use of the Haupt Garden circulation path south of the Castle.
  2. Hardscape materials are salvaged and reinstalled in their original locations.
  3. Turf and landscape plantings are returned.
CUMULATIVE EFFECTS OF PHASE 1 ACTIVITIES

Adverse Effect
SMITHSONIAN INSTITUTION BUILDING (SIB)

CUMULATIVE EFFECTS OF PHASE 1 ACTIVITIES

• Seismic control joint will be visible immediately adjacent to the base of the Castle at-grade, and visible around the porte cochere in the sidewalk. This has an adverse effect on the Castle and National Mall Settings.

• Proposed below-grade areaways and wells alter the Castle’s relationship with the ground plane.

• Areaways, window wells, and their fall protection railings will be visible within the setting at the base of the Castle. Railing design alternatives will be finalized in Phase 2 of 106 consultation.

• There is the potential for construction related adverse effects from excavation or building vibration. Construction activities will be temporarily halted should any vibration, settlement, or unanticipated circumstances exceed the safe limits outlined in the Monitoring Plan.

• Cumulative adverse effect from excavation work is conditional, provided the site is restored after construction is complete, including reinstallation of salvaged hardscape pavers and plantings.
SMITHSONIAN INSTITUTION BUILDING (SIB)

CUMULATIVE EFFECTS OF PHASE 1 ACTIVITIES

• Limit of Disturbance for Phase 1 construction activities will temporarily affect part of Jefferson Drive, Folger Rose Garden, and Haupt Garden.
• Construction fencing will obscure the base of the Castle around the Limit of Disturbance during Phase 1 construction activities.
• Alternate pedestrian routes may remain in place during the entire RoHC Revitalize Castle construction (Phase 1 and 2).
• Construction fencing and alternate pedestrian routes will have a temporary adverse effect on the Castle and its setting. When the Castle opens for 2026 activities, construction fencing will be removed. When construction resumes, construction fencing will be erected.
• Cumulative adverse effects from construction fencing and alternate pedestrian routes are conditional, provided the site is restored after construction is complete, including reinstallation of salvaged hardscape pavers and plantings.
PRELIMINARY EFFECT DETERMINATIONS FOR PHASE 2
Assessment of Effects on Historic Resources

The following provides an assessment of effects of each feature or action of the RoIC Revitalize Castle. The effect determination is based on the criteria of adverse effect. For more images and information on each action and assessment, please refer to the presentation materials from past Section 106 Consulting Partner meetings available on the project webpage. Phase 2 contains the remaining design actions for consultation to complete the RoIC Revitalize Castle project.

<table>
<thead>
<tr>
<th>Site</th>
<th>Feature/Action</th>
<th>Design Details</th>
</tr>
</thead>
</table>
| New Landscape Planting Plan | Landscape features and landscape displaced by the project limit of disturbance will be replaced in-kind.  
Character of the landscape will be maintained.  
Tree plantings will be setback from the Castle. |

Images

- Setting of the Castle is a character-defining feature.
- Haas Borden is documented in the National Mall Historic District nomination as part of the landscape setting, not as a contributing element.
- Current tree plantings are immediately adjacent to the Castle causing biological growth on the Soraia sandstone. Setting the trees back slightly from the Castle will remediate this problem.
- Landscape settings feature a mix of large structural trees (evergreen and deciduous), large shrubs/small trees, low shrubs, and groundcover. Diversity and hierarchy of plantings will be maintained.

Preliminary Effect Determination - No Adverse Effect

- Phase 2 effect determinations are preliminary based on the current design development.
- Assessment of Effects report will be updated in consultation to finalize Phase 2 effect determinations.
- Assessment of Effects report will be included in the Programmatic Agreement.
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<tr>
<th>Phase 2 Design Action</th>
<th>Preliminary Effect Determination</th>
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<tr>
<td>New Landscape Planting Plan</td>
<td>No Adverse Effect</td>
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<tr>
<td>Perimeter Security</td>
<td>Adverse Effect</td>
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<tr>
<td>Lighting</td>
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<tr>
<td>South Tower Elevator – Exterior Alterations</td>
<td>Adverse Effect</td>
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<tr>
<td>South Tower Elevator – Interior Effects</td>
<td>Adverse Effect</td>
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<tr>
<td>Areaways and Window Wells - Finishes</td>
<td>Phase 1 Adverse Effect (Intensity or minimize adverse effect)</td>
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<tr>
<td>Seismic Control Joint Cover Plate - Finishes</td>
<td>Phase 1 Adverse Effect (Intensity or minimize adverse effect)</td>
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<tr>
<td>Emergency Generator</td>
<td>Adverse Effect</td>
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<tr>
<td>In-Kind Replacement of Roof Materials</td>
<td>No Adverse Effect</td>
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<tr>
<td>Roof Modifications – Energy Improvements, Including Increases in Roof Thickness</td>
<td>No Adverse Effect</td>
</tr>
<tr>
<td>Modifications to Rooftop Mechanical Penthouses</td>
<td>Adverse Effect</td>
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<tr>
<td>Installation of New East Wing 4th Floor Egress</td>
<td>Adverse Effect</td>
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<tr>
<td>Replacement and Restoration of Windows</td>
<td>Adverse Effect</td>
</tr>
<tr>
<td>Replacement and Restoration of Windows – Interior Effects</td>
<td>Adverse Effect</td>
</tr>
<tr>
<td>Exterior Masonry Restoration</td>
<td>No Adverse Effect</td>
</tr>
<tr>
<td>New Basement Windows</td>
<td>Adverse Effect</td>
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<tr>
<td>Basement Egress Doors</td>
<td>Adverse Effect</td>
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<tr>
<td>Basement Level Interior Alterations – Lowering of the Basement Floor, New Basement Window Openings, and Egress Paths to Basement Level Egress Doors</td>
<td>Adverse Effect</td>
</tr>
<tr>
<td>Alterations at the South Entrance to Improve Accessibility</td>
<td>No Adverse Effect</td>
</tr>
<tr>
<td>Accessible Walkways at the North Entrance</td>
<td>No Adverse Effect</td>
</tr>
<tr>
<td>Cumulative Effects on the Castle</td>
<td>Adverse Effect</td>
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<tr>
<td>Cumulative Effects on the National Mall Historic District</td>
<td>Adverse Effect</td>
</tr>
</tbody>
</table>
Questions or Comments

MODERATOR
Carly Bond, Historic Preservation Specialist, Smithsonian Facilities

PRESENTERS / PANELISTS
Sharon Park, FAIA, Assoc. Director of Historic Preservation, Smithsonian Facilities
Brenda Sanchez, FAIA, Sr. Design Manager, Smithsonian Facilities
Christopher Lethbridge, Architect/Program Manager, Smithsonian Facilities
Lauren Brandes, RLA, ASLA, Smithsonian Gardens
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Anthony Bo chicchio, AIA, Project Manager, EYP-Loring, LLC
Faye Harwell, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)
OTHER REVIEW TOPICS
SOUTH TOWER ELEVATOR PENTHOUSES AND LOUVERED PENTHOUSE
SMITHSONIAN INSTITUTION BUILDING (SIB)

SIB EXISTING SOUTH TOWER PENTHOUSE

VIEW FROM LANDSCAPE – LOOKING NE

VIEW FROM LANDSCAPE – LOOKING NW

PARTIAL PLAN

EXISTING LOUVERED PENTHOUSE (MECHANICAL INTAKE)
SMITHSONIAN INSTITUTION BUILDING (SIB)

SIB EXISTING SOUTH TOWER PENTHOUSE

1. ROOF PLAN

2. EXISTING LOUVERED PENTHOUSE (MECHANICAL INTAKE)

VIEW FROM WALKWAY – LOOKING NE

VIEW FROM WALKWAY – LOOKING NW

PARTIAL PLAN
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED PENTHOUSES – SLOPED ROOFS

FEATURES

• FINAL STOP FOR ELEVATORS IN THE SOUTH TOWER IS FOUR FEET ABOVE LEVEL 4 IN THE MAIN BUILDING.

• ELEVATOR OVERRUNS & LOUVERED PENTHOUSE ARE AS SMALL AS POSSIBLE (MINIMUM 100 SQUARE FEET OF AREA REQUIRED FOR MECHANICAL RELIEF AIR).

• PENTHOUSE IS FREESTANDING FROM THE NORTH WALL OF THE SOUTH TOWER

• VERTICAL CIRCULATION IS CLEAR FOR VISITORS WITH ALL ELEVATORS SERVING ALL FLOORS
SMITHSONIAN INSTITUTION BUILDING (SIB)

SIB EXISTING SOUTH TOWER PENTHOUSE

PARTIAL PLAN

EXISTING CONDITION

SMITHSONIAN REVITALIZATION OF THE HISTORIC CORE
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED PENTHOUSES – SLOPED ROOFS

PARTIAL PLAN

SOUTH TOWER

EAST-WEST SECTION (SLOPED ROOFS)

MECHANICAL RELIEF AIR LOUVERS
SLOPED ROOF
ELEVATOR OVERRUN
DUCT TRANSFER TO ATTIC SPACE IN BETWEEN ELEVATOR HOISTWAYS

SIB-4TH LEVEL SOUTH TOWER
23475
77' - 0 1/4"

SIB-LEVEL 4
22256
73' - 0 1/4"

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

SIB EXISTING SOUTH TOWER PENTHOUSE

PARTIAL PLAN

SMITHSONIAN REVITALIZATION OF THE HISTORIC CORE
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED PENTHOUSES – SLOPED ROOFS

LOUVERED PENTHOUSE

- MINIMAL WIDTH CHANGE = LESS HISTORIC FABRIC REMOVAL

- NEW ALTERNATIVE: THROUGH WALL LOUVER

EAST ELEVATION (SLOPED ROOFS)
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED PENTHOUSES – SLOPED ROOFS

PARTIAL PLAN

SOUTH TOWER

PARTIAL AXONOMETRIC VIEW – LOOKING SW (SLOPED ROOFS)
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED PENTHOUSES – SLOPED ROOFS

EXISTING VIEW FROM GRADE – LOOKING NE

VIEW FROM GRADE OF THE PROPOSED PENTHOUSE – LOOKING NE
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED PENTHOUSES – SLOPED ROOFS

EXISTING VIEW FROM GRADE – LOOKING NW

VIEW FROM GRADE OF THE PROPOSED PENTHOUSE – LOOKING NW
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED PENTHOUSES – SLOPED ROOFS
SECTION AT SOUTH TOWER

PARTIAL PLAN

N

SMITHSONIAN REVITALIZATION OF THE HISTORIC CORE  98
SOUTH TOWER LOUVERS
ALTERNATIVE
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED ALTERNATIVE – WALL LOUVERS

FEATURES

• FINAL STOP FOR ELEVATORS IN THE SOUTH TOWER IS FOUR FEET ABOVE LEVEL 4 IN THE MAIN BUILDING.

• ELEVATOR OVERRUNS ARE AS SMALL AS POSSIBLE.

• LOUVERS INTEGRATED INTO NORTH ELEVATION OF SOUTH TOWER (MINIMUM 100 SQUARE FEET OF AREA REQUIRED FOR MECHANICAL RELIEF AIR).

• VERTICAL CIRCULATION IS CLEAR FOR VISITORS WITH ALL ELEVATORS SERVING ALL FLOORS

ENLARGED PLAN (AIR LOUVERS THROUGH SOUTH TOWER WALL)
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED ALTERNATIVE – WALL LOUVERS

PARTIAL PLAN

EXISTING CONDITION

EAST-WEST SECTION (AIR LOUVERS THROUGH SOUTH TOWER WALL)

MECHANICAL RELIEF AIR LOUVERS
SLOPED ROOF
ELEVATOR OVERRUN
DUCT TRANSFER TO ATTIC SPACE IN BETWEEN ELEVATOR HOISTS

SIB-4TH LEVEL SOUTH TOWER
23475
77' - 0 1/4''

SIB-LEVEL 4
22256
73' - 0 1/4''
LOUVERED PENTHOUSE

- ALTERNATIVE DESIGN: THROUGH WALL LOUVER

EAST ELEVATION (AIR LOUVERS THROUGH SOUTH TOWER WALL)
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED ALTERNATIVE – WALL LOUVERS

PARTIAL PLAN

N

SOUTH TOWER

PARTIAL AXONOMETRIC VIEW – LOOKING SW (AIR LOUVERS THROUGH SOUTH TOWER WALL)

MECHANICAL RELIEF AIR LOUVERS

ELEVATOR OVERRUN

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED ALTERNATIVE – WALL LOUVERS
SECTION AT SOUTH TOWER

PARTIAL PLAN

SOUTH TOWER

PRESENTER'S GREENROOM

REGENT'S ROOM

INACCESSIBLE

SOUTH ENTRY
(HISTORICALLY CHILDREN'S ROOM)

SOUTH TOWER
SMITHSONIAN INSTITUTION BUILDING (SIB)

PROPOSED ALTERNATIVE – WALL LOUVERS
LEVEL 05 PLAN

EXISTING CONDITION

PROPOSED CONDITION
Questions or Comments

MODERATOR
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NEXT STEPS
Programmatic Agreement

- SI proposes a Programmatic Agreement (PA) to oversee the phased Section 106 consultation of the RoHC Revitalize Castle
- A PA is a type of Section 106 agreement document that may be used in certain instances, such as when a project’s effects on historic properties cannot be fully determined prior to approval of the undertaking
- Some Phase 1 and Phase 2 actions are connected, for example:
  - Introduction of New Areaways and Windows Wells (Locations and Dimensions) – Phase 1
  - Areaways and Window Wells, Finishes – Phase 2
- Resolution of Phase 2 consultation will be formalized in a Memorandum of Agreement
Programmatic Agreement Outline

General PA Outline:

- Project facts and Section 106 consultation history
- Identify minimization measures
  - Seismic Cover Plate Edge Condition
  - Perimeter Security – Bench Size and Placement
  - *Secretary of the Interior's Standards for the Treatment of Historic Properties for Rehabilitation and Preservation*
- Mitigation measures, including measures from South Mall PA
- Assessment of Effects Report:
  - Final effect determinations for Phase 1
  - Preliminary effect determinations for Phase 2
- Section 106 consultation schedule for Phase 2
- Exhibits that depict the Phase 1 (Baseline Project) scope

Potential Minimization Item – Seismic Joint Cover Without Curb Extension
Programmatic Agreement Outline - Mitigation

Specific Mitigation Measures from the South Mall Master Plan PA that SI will implement:

• Historic American Landscape Survey of the Haupt Garden – Photographs and Drawings

• Update the National Historic Landmark Documentation for the Castle and the Arts & Industries Building.

• Monitoring of Adjacent Historic Properties
  • Develop Monitoring Plan to identify safe vibration limits based on pre-construction monitoring.
  • Procedures for temporarily halting work if safe limits are exceeded, followed with remediation and consultation with the PA Signatories prior to work resuming.

• Interpretive Signage Related to Construction – Interpretive exhibits in place at the start of construction related to the history of the Castle, and construction activities.
Programmatic Agreement Outline - Mitigation

• Permanent Interpretive Signage - Related to the seismic cover plate, most visible at the porte cochere.
  • Permanent location(s) will be selected during Phase 2 of consultation, in coordination with the Landscape Planting Plan.

• Web-based Exhibit – Demolition findings of historic fabric or unanticipated discoveries.

Concept Rendering of the Seismic Cover Plate adjacent to the porte cochere.
### Upcoming Section 106 Consultation Meetings

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Date</th>
<th>Meeting Content *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consulting Parties Review Draft Programmatic Agreement</td>
<td>Extended review period starts approximately December 20, 2022</td>
<td>• Comments welcome in writing or for discussion at Consulting Parties Meeting #9</td>
</tr>
<tr>
<td>Consulting Parties Meeting #9</td>
<td>January 25, 2023</td>
<td>• Review and finalize Programmatic Agreement</td>
</tr>
<tr>
<td>Consulting Parties Meeting #10</td>
<td>February 22, 2023</td>
<td>• TBD Phase 2 design actions</td>
</tr>
<tr>
<td>Consulting Parties Meeting #11</td>
<td>March 22, 2023</td>
<td>• TBD Phase 2 design actions</td>
</tr>
</tbody>
</table>

**Phase 2 Section 106 Consultation Continues through 2023**

* Subject to Change
RoHC Revitalize Castle – Next Steps

- Phase 1 Final Submission reviewed by the National Capital Planning Commission on March 3, 2023.
- Consultation on this project isn’t going to stop. Please stay with us for Phase 2.
- Thank for your support and assistance with this critical project!
- Comments are welcoming in writing anytime to: BondC@si.edu
- Draft Programmatic Agreement will be posted to the project webpage around December 20th. You will receive an email notification.
- Comments welcome on the draft Agreement in writing to BondC@si.edu or please bring them for discussion at CP meeting 9 on January 25th.
- Contact Carly with questions or any trouble with the recurring Zoom Webinar.

Please visit the project webpage: https://www.sifacilities.si.edu/historic-core
Questions or Comments

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