Welcome!
The meeting will begin momentarily.

How to Use Zoom Webinar:
- Zoom webinar will not permit access to your camera.
- 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.
PANEL OF SPEAKERS

MODERATOR
Carly Bond, Historic Preservation Specialist

PRESENTERS / PANELISTS
Brenda Sanchez, FAIA, Sr. Design Manager
Christopher Lethbridge, Architect/Program Manager
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

• Updates

• Basement Windows and Doors
  • Including Interior Effects

• Window Replacement
  • Window Design & Muntin Profile
  • Interior Effects
  • Anchorage Details

• Interior Effects of Lowering B0 Floor

• Review of July 11th Site Visit

• Resolution of Pending Items
  • Perimeter Security - Stone Selection
  • Accessible Walkway - Cladding
  • Planting Plan
  • Areaway Materials

• Next Steps

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<td>No Adverse Effect</td>
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<td>No Adverse Effect</td>
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<td>Metal Finish</td>
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<td>Options reviewed - Olympic Black selected</td>
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<td>Materials</td>
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<td></td>
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<td>Reviewed and accepted</td>
<td>No Adverse Effect</td>
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<td>North Entrance</td>
<td>Plan Layout</td>
<td>Reviewed and accepted</td>
<td>Adverse Effect</td>
<td>CP7, CP8</td>
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<td>Materials</td>
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<td>No Adverse Effect</td>
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<td>Railings</td>
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<td>CP11, CP14</td>
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<td>South Tower Elevators- Exterior</td>
<td>Overrun penthouses</td>
<td>Reviewed and accepted</td>
<td>Adverse Effect</td>
<td>CP10</td>
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<tr>
<td>South Tower Elevators- Interior Effects</td>
<td>Narrowing of the center corridor</td>
<td>Reviewed and accepted</td>
<td>Adverse Effect</td>
<td>CP11</td>
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<tr>
<td></td>
<td>North wall of Children’s Room</td>
<td>Reviewed and accepted</td>
<td>Adverse Effect</td>
<td>CP11</td>
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<td></td>
<td>Elevator doors and devices</td>
<td>Reviewed and accepted</td>
<td>Adverse Effect</td>
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<td>Mosaic Tile Floor at Regents’ Room Entry</td>
<td>Reviewed and accepted</td>
<td>Adverse Effect</td>
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<td>Slate- match for existing (historic?)</td>
<td>Reviewed and accepted</td>
<td>No Adverse Effect</td>
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<tr>
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<td>Dimensional changes at edges due to roof</td>
<td>Reviewed and accepted</td>
<td>No Adverse Effect</td>
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<td>Location and sizes</td>
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<td></td>
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<td>East Wing 4th Floor Egress</td>
<td>Guardrail</td>
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<td>Adverse Effect</td>
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<td>Adverse Effect</td>
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<td>Layout</td>
<td>Reviewed and accepted</td>
<td>No Adverse Effect</td>
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<td>Device details</td>
<td>Reviewed and accepted</td>
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<tr>
<td>Fall Protection</td>
<td>Layout</td>
<td>Reviewed and accepted</td>
<td>Adverse Effect</td>
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<td></td>
<td>Device details</td>
<td>Reviewed and accepted</td>
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# RoHC Revitalize Castle – Status of Design Review Items

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<th>Topic</th>
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<th>Proposed Effect Determination</th>
<th>CP Meeting</th>
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<tr>
<td>Replacement and Restoration of Windows</td>
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<td>Replacement - visual appearance, details</td>
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<td>Restoration - interior safety panels - details</td>
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<td>Replacement of Windows - Interior Effects</td>
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<td>Impacts to interior historic finishes (plaster)</td>
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<td>Exterior Masonry Restoration</td>
<td>Replacement material - St. Bees Sandstone</td>
<td>Reviewed and accepted</td>
<td>No Adverse Effect</td>
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<td>New Basement Windows</td>
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<td>Basement Egress Doors</td>
<td>Location and size</td>
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<td>Effect on exterior sandstone</td>
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<td>Basement Level Interior Alterations (Effects)</td>
<td>Impacts to interior historic finishes</td>
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<td>Exterior Lighting (Building)</td>
<td>Visual effect</td>
<td>Reviewed and accepted</td>
<td>No Adverse Effect</td>
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<td>Location of light sources</td>
<td>Reviewed and accepted</td>
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<td><strong>AREAWAYS AND WINDOW WELLS</strong></td>
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<td>Areaways and Window Wells - Finishes</td>
<td>Below Seneca sandstone</td>
<td>Options Reviewed</td>
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<td>Flooring and seismic joint</td>
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<td>Emergency Generator</td>
<td>Visibility</td>
<td>Reviewed and accepted</td>
<td>No Adverse Effect</td>
<td>CP10</td>
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</tbody>
</table>

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*SMITHSONIAN REVITALIZATION OF THE HISTORIC CORE* 6
RoHC Revitalize Castle – Status of Design Review Items

- Assessment of Effects Report updated as we move through consultation and reach consensus on design actions
- Updated AOE sections will be appended to the Meeting Minutes after each Consulting Parties Meeting and posted to the project webpage.

<table>
<thead>
<tr>
<th>Feature/Action</th>
<th>Summary</th>
<th>Proposed Effect Determination</th>
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<tbody>
<tr>
<td>Signage</td>
<td>• Proposed signage program results in an overall reduction in the amount of signage adjacent to the Castle</td>
<td>No Adverse Effect</td>
</tr>
<tr>
<td>Lighting</td>
<td>• Olmsted and Victorian light posts are in keeping with National Mall and Haupt Garden settings</td>
<td>No Adverse Effect</td>
</tr>
<tr>
<td>Building Lighting</td>
<td>• Lighting installed with non-visible fixtures in the landscape and on the Castle</td>
<td>No Adverse Effect</td>
</tr>
<tr>
<td>Roof Modifications – Energy Improvements, Including Increases in Roof Thickness</td>
<td>• Roof changes will not result in discernible impacts from grade</td>
<td>No Adverse Effect</td>
</tr>
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RoHC Revitalize Castle – Status of Design Review Items

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</table>
| Alterations at the South Entrance to Improve Accessibility | • Walkway paved with salvaged materials  
• Historic sandstone steps and door surround remain visible | No Adverse Effect |
| Accessible Walkways at the North Entrance | • Historic fabric will not be removed or obscured by the construction of the walkways  
• Setting maintained through use of curvilinear paths, plantings, and paving materials | No Adverse Effect |
BASEMENT WINDOWS AND DOORS
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXISTING
MAIN BUILDING SOUTH - ELEVATION
BASEMENT WINDOWS AND DOORS
MAIN BUILDING SOUTH - ELEVATION
PREFERRED OPTION

- Requires masonry removal to provide natural light into B0 level
- All basement window headers align with upper profile of water table, minimum infill
- All basement window sills at line of existing basement level (3'-1" above B0 finish floor)
- Least effect on decorative stone; maximizes natural light into B0 level
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXISTING PHOTOGRAPHS FROM SURVEY

EXISTING DOOR AT SOUTHEAST OF GREAT HALL

EXISTING WINDOW AT SOUTHEAST OF GREAT HALL

GREAT HALL SOUTHEAST ELEVATION
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXISTING
PHOTOGRAPHS FROM SURVEY

EXISTING DOOR AT SOUTHEAST OF GREAT HALL

EXISTING WINDOW AT SOUTHEAST OF GREAT HALL

EXISTING WINDOW WELL DEPTH (36” +/-)

GREAT HALL SOUTHEAST ELEVATION
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXISTING
STRUCTURAL TESTPIT FINDINGS

DIAGRAM OF BELOW GRADE EXTERIOR ASSEMBLY

IMAGES FROM STRUCTURAL TESTPIT EXPLORATION
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXISTING
MAIN BUILDING – SOUTH (EAST) ELEVATION

EXISTING SENECA SANDSTONE UNIT
EXISTING RUBBLE STONE
EXISTING BRICK MASONRY
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXISTING PHOTOGRAPHS FROM SURVEY
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXISTING
PHOTOGRAPHS FROM SURVEY
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXTENTS OF EXISTING MASONRY REMOVALS
MAIN BUILDING – SOUTH (EAST) ELEVATION

 Existing ramp and door at the southeast corner of the Main Building.

c. 1871
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXTENTS OF EXISTING MASONRY REMOVALS
MAIN BUILDING – SOUTH (EAST) ELEVATION

c. 1920

• Large portions of the International Exchange Service moved to the basement of the Castle's Main Building, East Wing, and Range beginning in 1870

International Exchange Service Deliveries, 1910

• In 1871 the loading ramp and door were installed
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | EXTENTS OF EXISTING MASONRY REMOVALS
MAIN BUILDING – SOUTH (EAST) ELEVATION

EXISTING SENECA SANDSTONE UNIT
EXISTING RUBBLE STONE
EXISTING BRICK MASONRY
NEW INFILL IN EXISTING OPENINGS

EXISTING SENECA SANDSTONE UNITS TO BE REMOVED FOR NEW WINDOW OPENING AND TO BE CUT AND REINSTALLED.
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS
MAIN BUILDING SOUTH - ELEVATION
OPTION 1 (PREVIOUSLY PROPOSED – NOT PREFERRED)

- Requires masonry removal to provide natural light into B0 level
- All basement window headers align with lower profile of water table
- Infill above windows in water table not preferred
- All basement window sills at line of existing basement level (3’-1” above B0 finish floor)

MAIN BUILDING SOUTH
ELEVATION – PROPOSED (OPT 1)

PROPOSED REMOVALS IN EXISTING MASONRY
PROPOSED INFILLS IN EXISTING MASONRY
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS
MAIN BUILDING SOUTH - ELEVATION
OPTION 2 - PREFERRED OPTION

- Requires masonry removal to provide natural light into B0 level
- All basement window headers align with upper profile of water table, minimum infill
- All basement window sills at line of existing basement level (3’-1” above B0 finish floor)
- Least effect on decorative stone; maximizes natural light into B0 level

MAIN BUILDING SOUTH
ELEVATION – PROPOSED (OPT 2)

PROPOSED REMOVALS IN EXISTING MASONRY
PROPOSED INFILLS IN EXISTING MASONRY
SMITHSONIAN REVITALIZATION OF THE HISTORIC CORE

SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS
MAIN BUILDING SOUTH - ELEVATION
OPTION 3

- Requires masonry removal to provide natural light into B0 level
- All basement window headers align with upper profile of water table, minimizes infill
- All basement window sills at line of existing basement sill height (4'-6" above B0 finish floor), reduces natural light to B0 level
- Proposed window sill above seated viewing height, not preferred

MAIN BUILDING SOUTH
ELEVATION – PROPOSED (OPT 3)

PROPOSED REMOVALS IN EXISTING MASONRY
PROPOSED INFILLS IN EXISTING MASONRY
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 2 – PREFERRED OPTION

Existing
- 3’-4” wide x 4’-6” high
- Diamond Muntin Pattern
- Single-Hung

Proposed
- 3’-4” wide x 7’-0” high
- Sill dropped to existing basement level
- Head at existing location- top of watertable
- Window heads above grade

SIB-EXIST. BASEMENT
8032
26’ - 4 1/4”

SIB-EXIST. BASEMENT SOUTH
7498
24’ - 7 1/4”

SIB-LEVEL B0
7092
23’ - 3 1/4”

EXISTING MAIN BUILDING SOUTH
Smithsonian Institution

PROPOSED MAIN BUILDING SOUTH – OPTION 2
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 2 – SASH OPTIONS

Opt 2A – Free Glass
Opt 2B – Diamond
Opt 2C – Full Diamond “Double” Hung
Opt 2D – Single Hung Diamond
Opt 2E – Single Hung

PREFERRED OPTION
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 2 – SASH OPTIONS WITH EXTERIOR GRILLES

Opt 2A – Free Glass
Opt 2B – Diamond
Opt 2C – Full Diamond "Double" Hung
Opt 2D – Single Hung Diamond
Opt 2E – Single Hung

Preferred Option

Opt 2D – Single Hung Diamond

PREFERRED OPTION
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
COMPARISON OF OPTIONS

EXISTING MAIN BUILDING SOUTH

PROPOSED MAIN BUILDING SOUTH
OPT 1D

PROPOSED MAIN BUILDING SOUTH
OPT 2D - PREFERRED OPTION

PROPOSED MAIN BUILDING SOUTH
OPT 3D
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - ELEVATION
OPTION 4 - MIXED HEAD HEIGHTS

New window opening heads aligned with grade
Existing window openings increased to 7'-0" high, heads remain at existing height
Questions or Comments

MODERATOR
Carly Bond, Historic Preservation Specialist

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WINDOW REPLACEMENT
WINDOW DESIGN AND MUNTIN PROFILE
### SMITHSONIAN INSTITUTION BUILDING (SIB)

#### WINDOW REPLACEMENT | SCHEDULE

<table>
<thead>
<tr>
<th>BLAST APPROACH</th>
<th>QTY</th>
<th>WINDOW</th>
<th>QTY</th>
<th>TYPES (BY PRIMARY FUNCTION)</th>
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<td>397</td>
<td>TYPES</td>
<td>97</td>
<td>CASEMENT</td>
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<td>NEW INTERIOR BLAST STORM + HISTORIC</td>
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<td>579</td>
<td>DOUBLE-HUNG</td>
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<td>NEW NON-BLAST WINDOW</td>
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<td>FIXED</td>
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<td>HOPPER</td>
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<td>SINGLE-HUNG</td>
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<td>TOTAL WINDOWS</td>
<td>579</td>
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</table>

* INTENDED FUNCTION. MANY WINDOWS SURVEYED PAINTED SHUT OR WINDOW HARDWARE FAILING TO OPERATE PROPERLY
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | EXTERIOR APPEARANCE
SHAPE, TYPE

[Diagram of window shapes and types]
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | EXTERIOR APPEARANCE
SHAPE, TYPE

BLAST RESISTANT STORM
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | MUNTIN PROFILE

EXISTING

SURVIVING HISTORIC SASH (LEVEL 4)
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
NORTH ELEVATION

NEW STORM WINDOW AT INTERIOR SIDE OF EXISTING TO REMAIN
NEW BLAST WINDOW, WITH OR WITHOUT ADDITIONAL WALL STRENGTHENING
NEW NON-BLAST WINDOW (LEVEL 5 AND ABOVE – UNOCCUPIED)
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
SOUTH ELEVATION

NEW STORM WINDOW AT INTERIOR SIDE OF EXISTING TO REMAIN
NEW BLAST WINDOW, WITH OR WITHOUT ADDITIONAL WALL STRENGTHENING
NEW NON-BLAST WINDOW (LEVEL 5 AND ABOVE – UNOCCUPIED)
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
GLAZING THICKNESS

BLAST STORM PANEL:

*Interior (protected) side*
- 8 mm (5/16") heat strengthened glass
- 2.3 mm (0.090") PVB laminate
- 8 mm (5/16") heat strengthened glass

*Exterior (threat) side*

INSULATED GLAZING UNIT:

*Interior (protected) side*
- 3 mm (1/8") heat strengthened glass
- 1.52 mm (0.060") PVB laminate
- 3 mm (1/8") heat strengthened glass
- 12 mm (1/2") air space
- 6 mm (1/4") heat strengthened glass

*Exterior (threat) side*
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN DETAIL COMPARISON

EXISTING (AS FOUND)

TRUE DIVIDED LITE (IGU)

NOT AVAILABLE

SIMULATED DIVIDED LITE*
(IGU)

ONLY OPTION

HISTORIC + NEW STORM
(BLAST STORM PANEL)
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN GLAZING COMPARISON – TRUE DIVIDED LITE

EXISTING (AS FOUND)

TRUE DIVIDED LITE - NOT AVAILABLE

CHANGE IN AREA OF FREE GLASS = -15%
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN GLAZING COMPARISON – SIMULATED DIVIDED LITE - ONLY OPTION

EXISTING (AS FOUND)

SIMULATED DIVIDED LITE - ONLY OPTION

CHANGE IN AREA OF FREE GLASS = -4%
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN GLAZING COMPARISON - HISTORIC / NEW STEEL WINDOW + NEW STORM (AT INTERIOR)

EXISTING (AS FOUND)

HISTORIC / NEW STEEL WINDOW + NEW STORM (AT INTERIOR)

CHANGE IN AREA OF FREE GLASS = UNCHANGED
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN GLAZING COMPARISON - SUMMARY

EXISTING

EXISTING (AS FOUND)

REPLACEMENT TYPES

TRUE DIVIDED LITE
NOT AVAILABLE

CHANGE IN AREA OF FREE GLASS = -15%

SIMULATED DIVIDED LITE
ONLY OPTION

CHANGE IN AREA OF FREE GLASS = -4%

HISTORIC / NEW STEEL WINDOW + NEW STORM (AT INTERIOR)

CHANGE IN AREA OF FREE GLASS = UNCHANGED
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN – VISUALIZATION

EXISTING (AS FOUND)

TRUE DIVIDED LITE
*NOT AVAILABLE*
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN – VISUALIZATION - ONLY OPTION

EXISTING (AS FOUND)

INTERIOR

SIMULATED DIVIDED LITE
ONLY OPTION

INTERIOR

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN – VISUALIZATION

EXISTING (AS FOUND)

HISTORIC / NEW STEEL WINDOW + NEW STORM* (AT INTERIOR)

* LOCATION OF INTERIOR BLAST STORM PANEL VARIES BASED ON WINDOW TYPE
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MUNTIN – VISUALIZATION SUMMARY

EXISTING

EXISTING (AS FOUND)

REPLACEMENT TYPES

TRUE DIVIDED LITE
NOT AVAILABLE

SIMULATED DIVIDED LITE
ONLY OPTION

HISTORIC / NEW STEEL WINDOW
+ NEW STORM* (AT INTERIOR)

* LOCATION OF INTERIOR BLAST STORM PANEL VARIES BASED ON WINDOW TYPE
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
WINDOW COMPARISON – SUMMARY

EXISTING (AS FOUND)

TRUE DIVIDED LITE
NOT AVAILABLE

SIMULATED DIVIDED LITE
ONLY OPTION

SHAPE | QTY
---|---
ARCHED | 411

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
WINDOW COMPARISON – SUMMARY

EXISTING (AS FOUND)

TRUE DIVIDED LITE
NOT AVAILABLE

SIMULATED DIVIDED LITE
ONLY OPTION

SMITHSONIAN REVITALIZATION OF THE HISTORIC CORE

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TYPE NO. 34
(CAMPANILE TOWER)
**SMITHSONIAN INSTITUTION BUILDING (SIB)**

**WINDOW REPLACEMENT | PROPOSED**

**WINDOW COMPARISON – SUMMARY**

<table>
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![Existing (as found)](image1)

![True divided lite](image2)

![Simulated divided lite](image3)

- **EXISTING (AS FOUND)**
- **TRUE DIVIDED LITE NOT AVAILABLE**
- **SIMULATED DIVIDED LITE ONLY OPTION**

Smithsonian Institution
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
WINDOW COMPARISON – SUMMARY

EXISTING (AS FOUND)

TRUE DIVIDED LITE
NOT AVAILABLE

SIMULATED DIVIDED LITE
ONLY OPTION

SMITHSONIAN REVITALIZATION OF THE HISTORIC CORE
WINDOW REPLACEMENT
INTERIOR EFFECTS
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MAIN BUILDING SOUTH - SECTION
COMPARISON OF OPTIONS 1-3

EXISTING MAIN BUILDING SOUTH

PROPOSED MAIN BUILDING SOUTH
OPT 1

PROPOSED MAIN BUILDING SOUTH
OPT 2 - PREFERRED OPTION

PROPOSED MAIN BUILDING SOUTH
OPT 3
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MAIN BUILDING SOUTH - INTERIOR DETAIL
OPTION 2

EXISTING - MAIN BUILDING SOUTH (CAFETERIA)

PROPOSED - MAIN BUILDING SOUTH – OPTION 2 - PREFERRED OPTION

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SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MAIN BUILDING SOUTH - INTERIOR DETAIL
COMPARISON OF OPTION 1 & 2

PROPOSED - MAIN BUILDING SOUTH – OPTION 1

PROPOSED - MAIN BUILDING SOUTH – OPTION 2 - PREFERRED OPTION
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MAIN BUILDING SOUTH - INTERIOR DETAIL
COMPARISON OF OPTION 2 & 3

PROPOSED - MAIN BUILDING SOUTH – OPTION 2 - PREFERRED OPTION

PROPOSED - MAIN BUILDING SOUTH – OPTION 3
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | PROPOSED
MAIN BUILDING BASEMENT - WINDOW SIZE OPTION VISUALIZATION COMPARISON

FEATURES:

**OPTION 1**
- 3’-4” x 5’-7”
- HEADER AT LOWER WATER LINE
- SILL AT EXISTING BASEMENT DATUM

**OPTION 2 – PREFERRED OPTION**
- 3’-4” x 7’-0”
- HEADER AT EXISTING HEADER HEIGHT
- SILL AT EXISTING BASEMENT DATUM

**OPTION 3**
- 3’-4” x 5’-7”
- HEADER AT EXISTING HEADER HEIGHT
- SILL AT 4’-7”

*ARCHITECTURAL GRAPHIC STANDARDS (AGS) SITTING HEIGHT*
WINDOW REPLACEMENT
ANCHORAGE DETAILS
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | TYPICAL ANCHORAGE DETAIL
NEW BLAST WINDOW (ADDITIONAL STRENGTHENING WHERE REQUIRED)

**EXISTING WINDOW PLAN DETAIL**

**PROPOSED WINDOW PLAN DETAIL**

* WHERE STRENGTHENING IS REQUIRED, STEEL PLATE FOR STRENGTHENING IS WITHIN WINDOW FRAME DEPTH

<table>
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<td>NEW BLAST WINDOW</td>
<td>397</td>
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<tr>
<td>NEW INTERIOR BLAST STORM + HISTORIC</td>
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<td>110</td>
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<tr>
<td>TOTAL WINDOWS</td>
<td>579</td>
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</table>
Features:
- Typical blast window placed at same location as existing.
- Window anchorage concealed within window frame depth.
- Where strengthening is required steel plate is concealed within window frame depth.
- Minimal plaster removal required to remove existing window as plaster turns into existing wood frame.
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | TYPICAL ANCHORAGE DETAIL

NEW INTERIOR STORM WINDOW

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EXISTING WINDOW PLAN DETAIL

PROPOSED WINDOW PLAN DETAIL
Features:
- Typical interior storm blast window placed behind existing window.
- Window anchorage concealed within window frame depth.
- Minimal plaster removal required to remove existing window for repairs as plaster turns into existing wood frame.
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | TYPICAL ANCHORAGE DETAIL
NEW INTERIOR STORM WINDOW + WALL STRENGTHENING

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EXISTING WINDOW PLAN DETAIL

PROPOSED WINDOW PLAN DETAIL
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | TYPICAL ANCHORAGE DETAIL
NEW INTERIOR STORM WINDOW + WALL STRENGTHENING

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Features:
- Typical interior storm blast window placed behind existing window.
- Window anchorage concealed within window frame depth.
- Steel plate required for strengthening concealed within window frame depth.
- Minimal plaster removal required to remove existing window as plaster turns into existing wood frame.
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | TYPICAL ANCHORAGE DETAIL
NEW INTERIOR STORM ROSE WINDOW – COMMONS (SINGLE PANE GLAZING)

Features:
• Interior storm blast window placed behind existing window with single pane glazing.
• Window anchorage and strengthening concealed within window frame depth.
• Minimal plaster removal required to attach frame to masonry.
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | TYPICAL ANCHORAGE DETAIL
NEW INTERIOR STORM ROSE WINDOW – COMMONS (SINGLE PANE GLAZING)

EXISTING WINDOW INTERIOR ELEVATION

PROPOSED WINDOW INTERIOR ELEVATION
SMITHSONIAN INSTITUTION BUILDING (SIB)

WINDOW REPLACEMENT | TYPICAL ANCHORAGE JAMB DETAIL

NEW INTERIOR STORM ROSE WINDOW – COMMONS (SINGLE PANE GLAZING)

PROPOSED WINDOW JAMB DETAIL
Questions or Comments

MODERATOR
Carly Bond, Historic Preservation Specialist

PRESENTERS / PANELISTS
Brenda Sanchez, FAIA, Sr. Design Manager
Christopher Lethbridge, Architect/Program Manager
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)
INTERIOR EFFECTS OF LOWERING FLOOR
Pier Extension + Flooring
SMITHSONIAN INSTITUTION BUILDING (SIB)

B0 VISITOR AMENITIES | EXTENSION OF B0 PIER ELEVATION

EXISTING PIER AT SOUTH ELEVATION

PROPOSED PIER EXTENSION
SMITHSONIAN INSTITUTION BUILDING (SIB)

B0 VISITOR AMENITIES | HISTORIC BASEMENT IMAGE

BASEMENT CEILING PAINTED WHITE

EXISTING VISIBILITY OF BASEMENT CEILING
SMITHSONIAN INSTITUTION BUILDING (SIB)

80 VISITOR AMENITIES | OPTION 1
PIER EXTENSION AND FLOORING

COLUMN EXTENSION TERRAZZO OPTION #1

FLOOR TERRAZZO 01

FLOOR TERRAZZO 02
SMITHSONIAN INSTITUTION BUILDING (SIB)

B0 VISITOR AMENITIES | OPTION 2
PIER EXTENSION AND FLOORING

COLUMN EXTENSION
PARGE MATERIAL OPTION #2

FLOOR TERRAZZO 01

FLOOR TERRAZZO 02
SMITHSONIAN INSTITUTION BUILDING (SIB)

B0 VISITOR AMENITIES | OPTION 3
PIER EXTENSION AND FLOORING

COLUMN EXTENSION
STONE OPTION #3
Indiana Limestone - Sandblasted

FLOOR TERRAZZO 01

FLOOR TERRAZZO 02
SMITHSONIAN INSTITUTION BUILDING (SIB)

B0 VISITOR AMENITIES | OPTION 4 - PREFERRED
PIER EXTENSION AND FLOORING

COLUMN EXTENSION
STONE OPTION #4
St. Clair Limestone

FLOOR TERRAZZO 01

FLOOR TERRAZZO 02

Smithsonian Institution
JULY 11th SITE VISIT
Exterior Replacement Materials
RoHC Revitalize Castle – Status of Design Review Items
Site Visit & Material Review (July 11, 2023)

- Materials reviewed for:
  - Perimeter Security Hardened Elements (North Entry)
  - Areaway Finishes (Granite, UHPC, Pavers, Precast Treads)
  - Roof slate

* Consensus: Prairie Brown or Olympic Black for perimeter security
RoHC Revitalize Castle – Status of Design Review Items
Site Visit & Material Review (July 11, 2023)

* Consensus: Grayson Slate for roof, closest to Buckingham slate
RESOLUTION OF PENDING ITEMS
STONE SELECTION – PERIMETER SECURITY
SMITHSONIAN INSTITUTION BUILDING (SIB)

PERIMETER SECURITY HARDENED ELEMENTS STONE OPTIONS
SMITHSONIAN INSTITUTION BUILDING (SIB)

PERIMETER SECURITY HARDENED ELEMENTS STONE OPTIONS – PRAIRIE BROWN

PRAIRIE BROWN (FINISH TBD)
SMITHSONIAN INSTITUTION BUILDING (SIB)

PERIMETER SECURITY HARDENED ELEMENTS STONE OPTIONS – OLYMPIC BLACK

OLYMPIC BLACK - SANDBLAST FINISH
RESOLUTION OF PENDING ITEMS
NORTH RAMPS/SLOPED SIDEWALKS
SMITHSONIAN INSTITUTION BUILDING (SIB)

SLOPED SIDEWALK FROM JEFFERSON DRIVE – WEST: PROPOSED

EXISTING CONDITIONS: SANDSTONE BLOCKS WITH STONE COPING

OLYMPIC BLACK (LEFT) SEISMIC JOINT COVER STONE AND PRAIRIE BROWN

PREFERRED OPTION: SENECA SANDSTONE MATCH FOR RAMP WALL (VENEER) AND COPING
SMITHSONIAN INSTITUTION BUILDING (SIB)

SLOPED SIDEWALK FROM JEFFERSON DRIVE – WEST | PROPOSED
OPTION 1 – PRAIRIE BROWN

MT AIRY CURB
HARDENED SIGN; PRAIRIE BROWN GRANITE

SENECA MATCH CURB TO MATCH COPING

SENECA MATCH COPING

EXPOSED AGGREGATE CONCRETE PAVING
RESOLUTION OF PENDING ITEMS

PLANTING PLAN
SMITHSONIAN INSTITUTION BUILDING (SIB)

PLANTING PLAN | PREVIOUS STUDIES – PRELIMINARY PLANTING (2021) AND PRIMARY ARCHITECTURAL FEATURES TO REVEAL (2022)
SMITHSONIAN INSTITUTION BUILDING (SIB)

PLANTING PLAN | SASAKI PLAN (1987)
SMITHSONIAN INSTITUTION BUILDING (SIB)

PLANTING PLAN | PROPOSED
Note: Existing vegetation omitted for clarity of proposed plantings.
RESOLUTION OF PENDING ITEMS
AREAWAY MATERIALS
SMITHSONIAN INSTITUTION BUILDING (SIB)

AREAWAYS | PROPOSED FINISH MATERIALS
VISUALIZATION – UPDATE BASED ON IN-PERSON MATERIAL REVIEW – OPT 1

A) WALL – UHPC (CUSTOM MIX BASED ON PORCELAIN PAVER)

B) PORCELAIN PEDESTAL PAVER - NANTUCKET

C) UNDERPINNING – OLYMPIC BLACK (SANDBLAST)
SMITHSONIAN INSTITUTION BUILDING (SIB)

AREAWAYS | PROPOSED FINISH MATERIALS
VISUALIZATION – UPDATE BASED ON IN-PERSON MATERIAL REVIEW – OPT 2

A) WALL – UHPC (CUSTOM MIX BASED ON PORCELAIN PAVER)

B) PORCELAIN PEDESTAL PAVER - NANTUCKET

C) UNDERPINNING – CARNELIAN
SMITHSONIAN INSTITUTION BUILDING (SIB)

AREAWAYS | PROPOSED FINISH MATERIALS
VISUALIZATION – UPDATE BASED ON IN-PERSON MATERIAL REVIEW – OPT 3

A) WALL – UHPC (CUSTOM MIX BASED ON PORCELAIN PAVER)

B) PORCELAIN PEDESTAL PAVER - NANTUCKET

C) PARGE – TINTED (LIGHTER)
SMITHSONIAN INSTITUTION BUILDING (SIB)

AREAWAYS | PROPOSED FINISH MATERIALS
VISUALIZATION – UPDATE BASED ON IN-PERSON MATERIAL REVIEW – OPT 4

A) WALL – UHPC (CUSTOM MIX BASED ON PORCELAIN PAVER)

B) PORCELAIN PEDESTAL PAVER - NANTUCKET

C) PARGE – TINTED (DARKER)
Upcoming Section 106 Consultation Meetings

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<td>• Meeting format: Recorded? Handout for review?</td>
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Phase 2 Section 106 Consultation Continues through 2023

Assessment of Effects on Historic Resources Report will be revised through consultation for Phase 2 actions

Thank for your support and assistance with this critical project!

- Comments are welcoming in writing anytime to: BondC@si.edu
- Contact Carly with questions or any trouble with the recurring Zoom Webinar.

Please visit the project webpage:
https://ahhp.si.edu/historic-core
RoHC Revitalize Castle – Next Steps

- Programmatic Agreement executed March 29, 2023
- Thank for your support and assistance with this critical project!

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Questions or Comments

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APPENDIX
SUPPLEMENTARY MATERIAL
**BASEMENT WINDOWS AND DOORS | PROPOSED**

**MAIN BUILDING SOUTH - EXTERIOR DETAIL**

**OPTION 1**

**EXISTING MAIN BUILDING SOUTH**

- 3’-4” wide x 4’-6” high
- Diamond Muntin Pattern
- Single-Hung

**PROPOSED MAIN BUILDING SOUTH – OPTION 1**

- 3’-4” wide x 5’-7” high
- Sill dropped to existing basement level
- Window head aligned with grade

---

**SIB-EXIST. BASEMENT**

- 8032
- 26’ - 4 1/4”

**SIB-EXIST. BASEMENT SOUTH**

- 7498
- 24’ - 7 1/4”

**SIB-LEVEL B0**

- 7092
- 23’ - 3 1/4”
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 1 – SASH OPTIONS

Opt 1A – Free Glass  
Opt 1B – Diamond  
Opt 1C – Full Diamond “Double” Hung  
Opt 1D – Single Hung Diamond  
Opt 1E – Single Hung
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 1 – SASH OPTIONS WITH EXTERIOR GRILLES

Opt 1A – Free Glass
Opt 1B – Diamond
Opt 1C – Full Diamond “Double” Hung
Opt 1D – Single Hung Diamond
Opt 1E – Single Hung
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 3 – SASH OPTIONS

Existing
- 3’-4” wide x 4’-6” high
- Diamond Muntin Pattern
- Single-Hung

Proposed
- 3’-4” wide x 5’-6” high
- Head at existing location - top of watertable
- Window heads above grade
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 3 – SASH OPTIONS

Opt 3A – Free Glass
Opt 3B – Diamond
Opt 3C – Full Diamond “Double” Hung
Opt 3D – Single Hung Diamond
Opt 3E – Single Hung

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SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
OPTION 3 – SASH OPTIONS WITH EXTERIOR GRILLES

Opt 3A – Free Glass
Opt 3B – Diamond
Opt 3C – Full Diamond “Double” Hung
Opt 3D – Single Hung Diamond
Opt 3E – Single Hung
SMITHSONIAN INSTITUTION BUILDING (SIB)

BASEMENT WINDOWS AND DOORS | PROPOSED
MAIN BUILDING SOUTH - EXTERIOR DETAIL
COMPARISON OF OPTION 1D & 2D

PROPOSED MAIN BUILDING SOUTH – OPTION 1D

PROPOSED MAIN BUILDING SOUTH – OPTION 2D
PREFERRED OPTION

SIB-EXIST. BASEMENT
8032
26' - 4 1/4"

SIB-EXIST. BASEMENT SOUTH
7498
24' - 7 1/4"

SIB-LEVEL B0
7092
23' - 3 1/4"