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Smithsonian Institution

Revitalization of the Historic Core
CONSULTING PARTIES MEETING #6

September 28, 2022

Audio Settings

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Q&A

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Smithsonian Institution

Revitalization of the Historic Core
CONSULTING PARTIES MEETING #6

September 28, 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 Scope – Revitalize Castle**
- **Design Actions**
 - **Extent of Excavation**
 - **Areaways**
 - **Seismic Joint Cover**
 - **Perimeter Security Alternatives**
 - **Landscape**
 - **Hardscape**
- **Project Schedule**
- **Next Steps**

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RoHC Revitalize Castle

- Castle and AIB/Central Utility Plant are now separated into two projects

Revitalize Castle Scope

- Enhanced Quad Loading Dock
- Castle B1 Service Connector
- Castle Mechanical Equipment and Distribution Level
- Quad - Future B2 Public Connection
- Seismic Base Isolation and Control Joint
- Areaways, Egress Doors, Basement Windows
- Accessible Entrances
- Exterior Rehabilitation
- Blast Windows
- Roof Changes, Mechanical Vents, Elevators
- 4th Floor Egress
- Landscape around Castle
- Perimeter Security – Jefferson Drive



RoHC Revitalize Castle

MODIFICATION TO THE SMITHSONIAN INSTITUTION BUILDING & BASEMENT LEVEL EXPANSION



- The below grade construction will create areas for building systems and support spaces that will free up areas in the historic building for public uses.
- The basement floor of the SIB (Castle) will be lowered approximately three feet to provide better space for public functions. Below the basement a mechanical level for equipment and systems routing will be created that aligns with the adjacent loading dock and B1 level.
- A future public connection is enabled from the SIB (Castle) to the Quad on the B2 level. This connection will become public under the future Quadrangle renovation project.

Building Legend

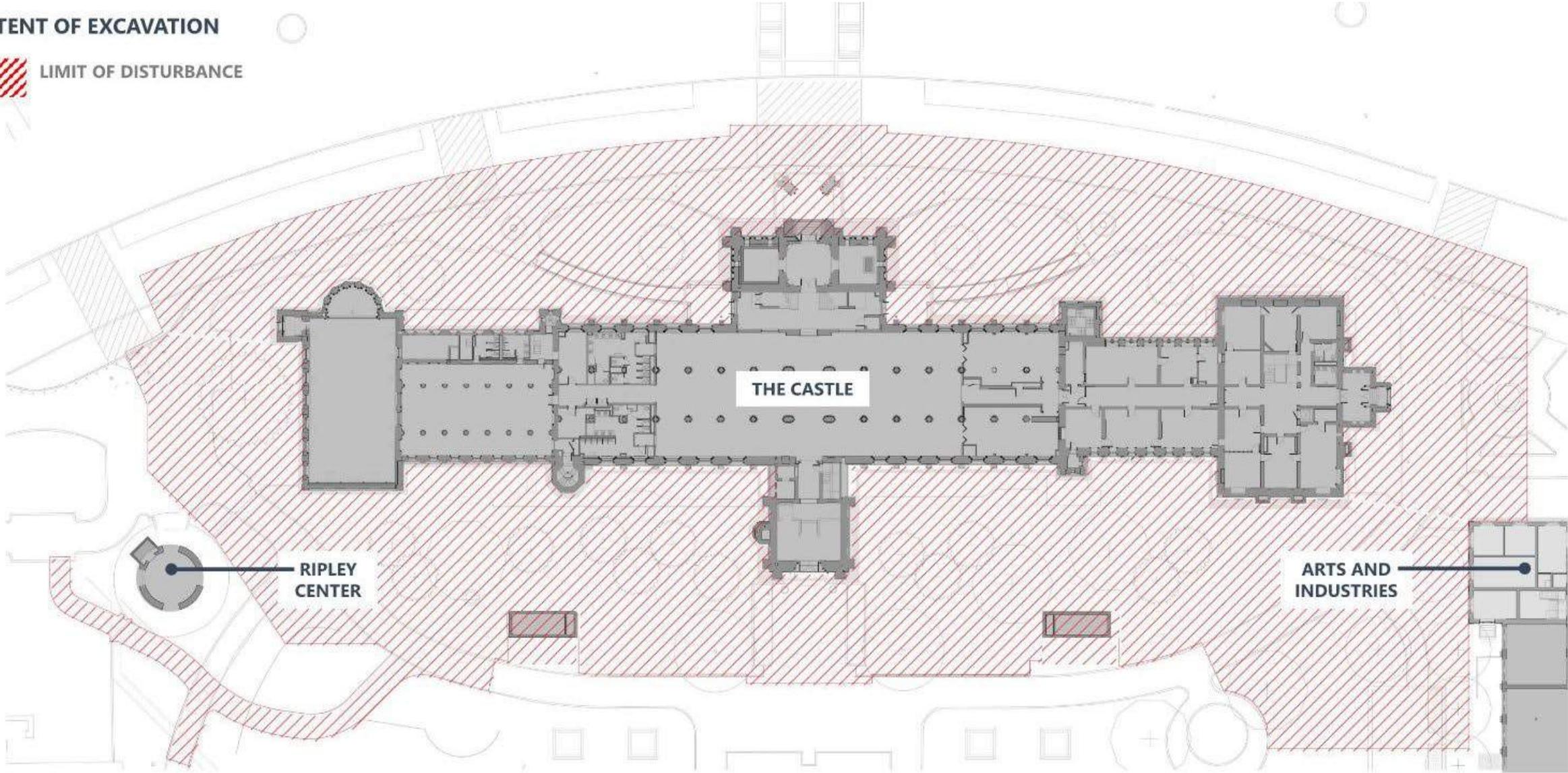
- Smithsonian Institution Building
- SIB Expansion

EXTENT OF EXCAVATION

SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION

 LIMIT OF DISTURBANCE



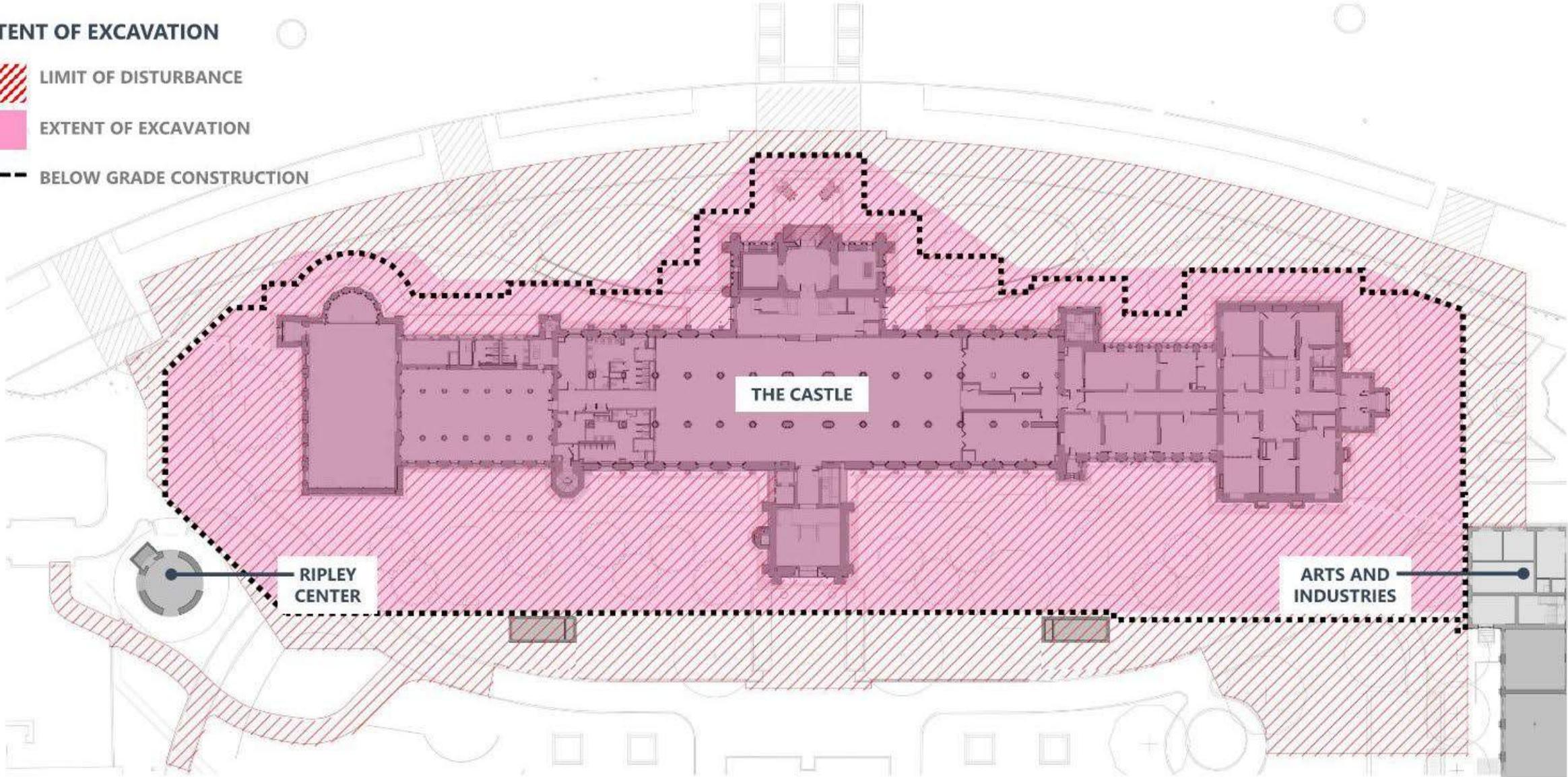
SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION

 LIMIT OF DISTURBANCE

 EXTENT OF EXCAVATION

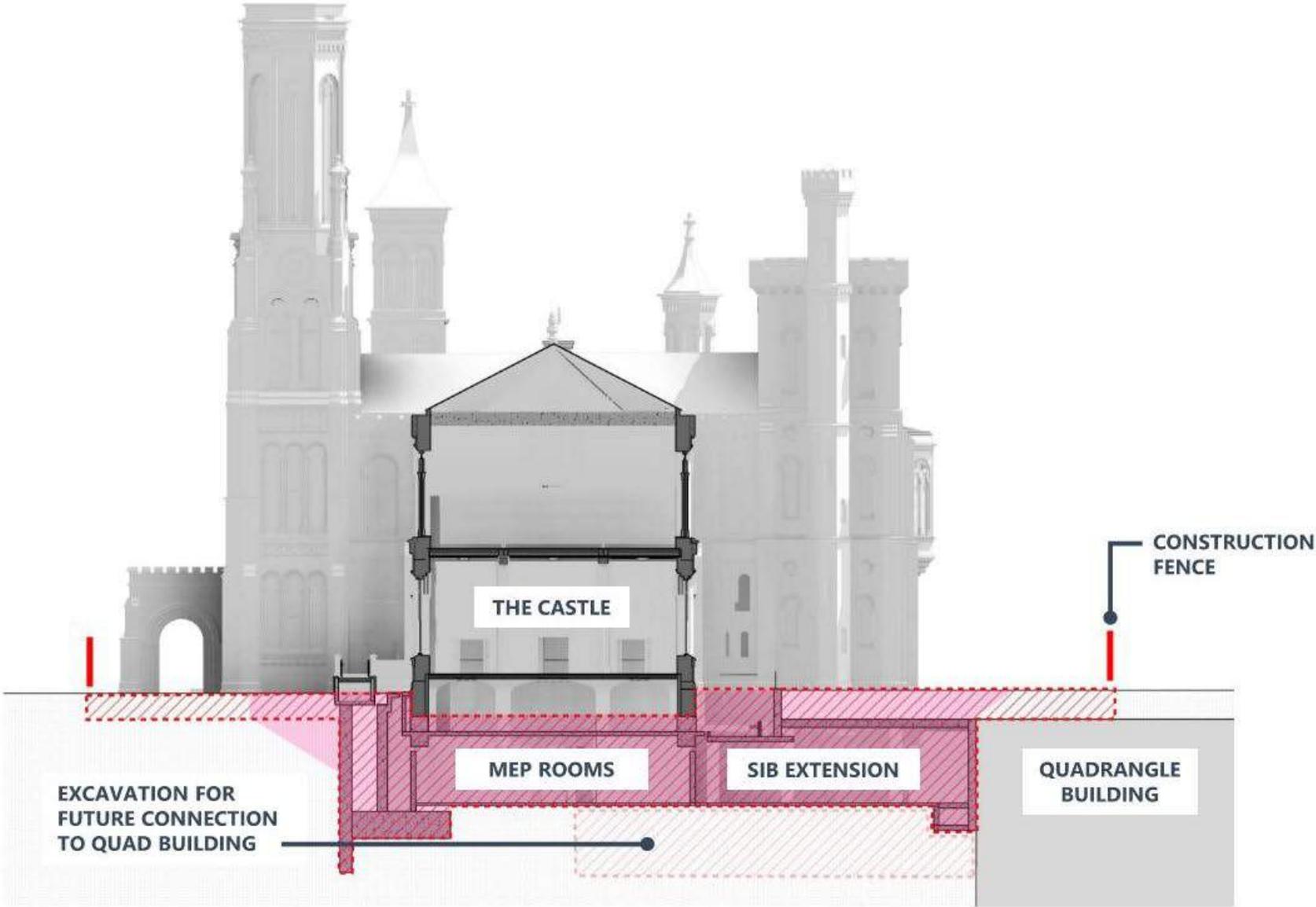
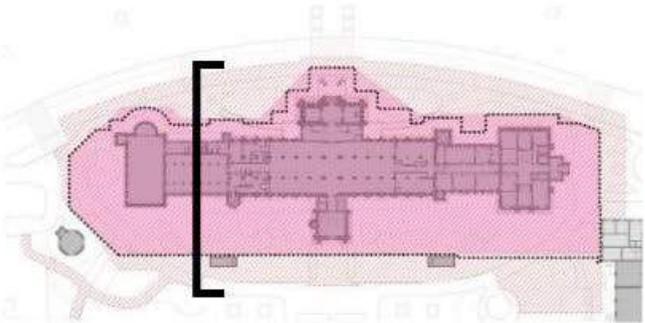
 BELOW GRADE CONSTRUCTION



SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – BUILDING SECTION

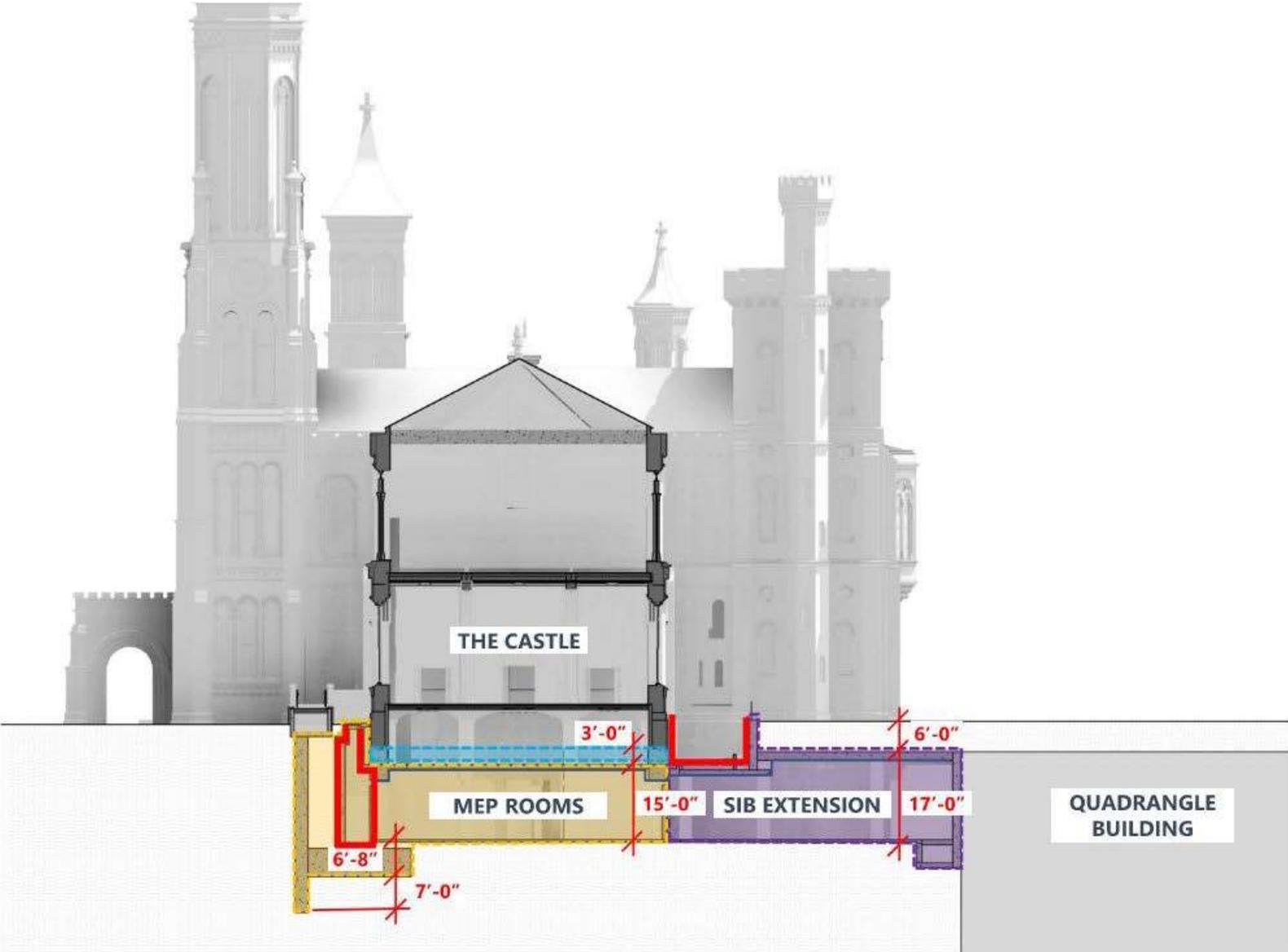
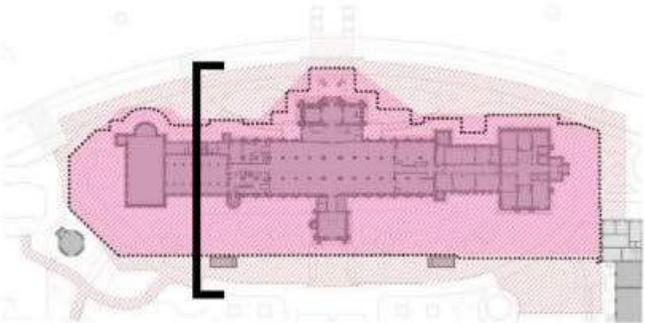
-  LIMIT OF DISTURBANCE
-  EXTENT OF EXCAVATION



SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – BUILDING SECTION

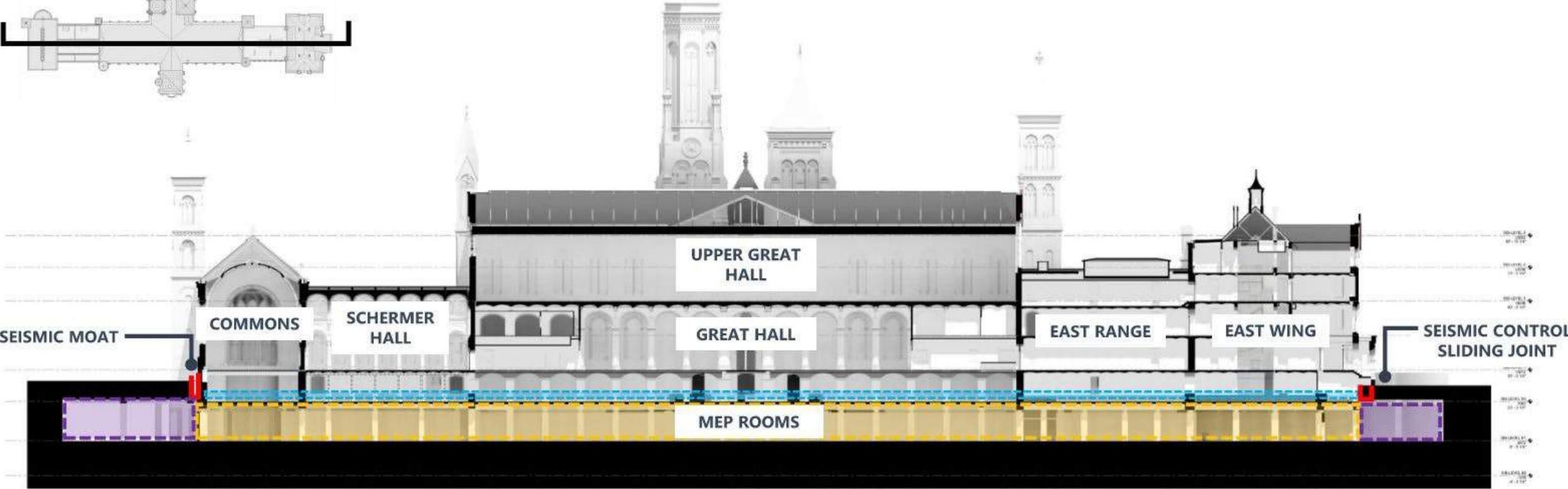
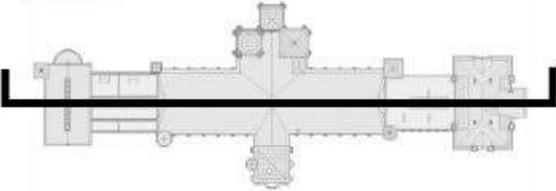
- MEP ROOMS
- SIB EXTENSION
- LOWERED BASEMENT
- PERIMETER FEATURE



SMITHSONIAN INSTITUTION BUILDING (SIB)

LONGITUDINAL SECTION – EAST-WEST

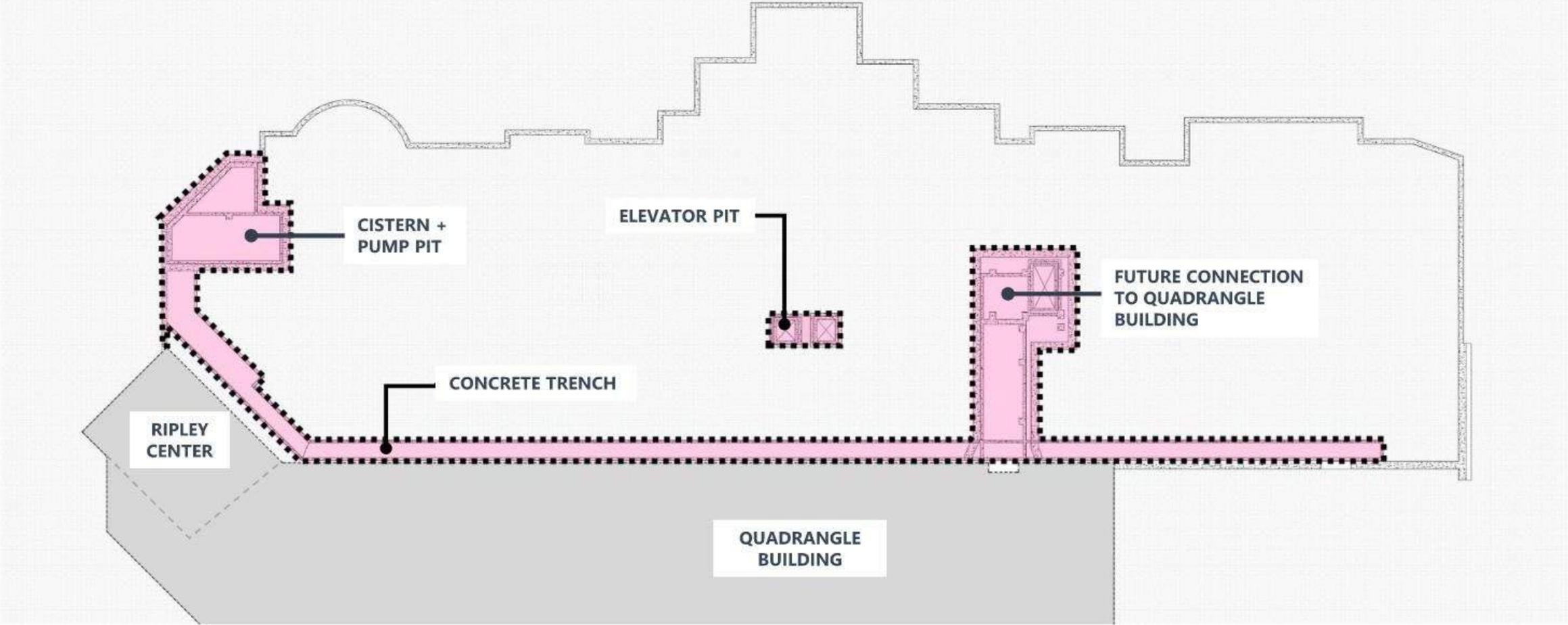
- MEP ROOMS
- SIB EXTENSION
- LOWERED BASEMENT
- PERIMETER FEATURE



SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – LEVEL B2

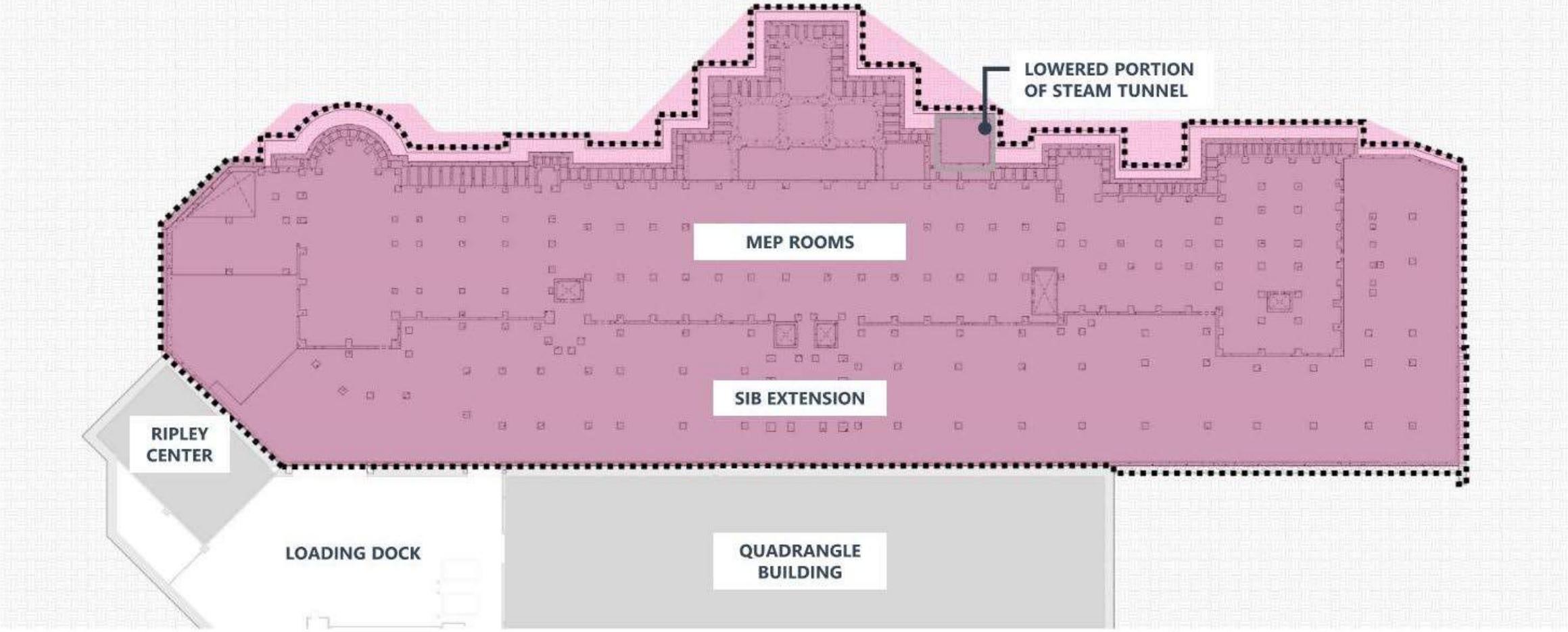
- EXTENT OF EXCAVATION
- BELOW GRADE CONSTRUCTION



SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – LEVEL B1

- EXTENT OF EXCAVATION
- BELOW GRADE CONSTRUCTION

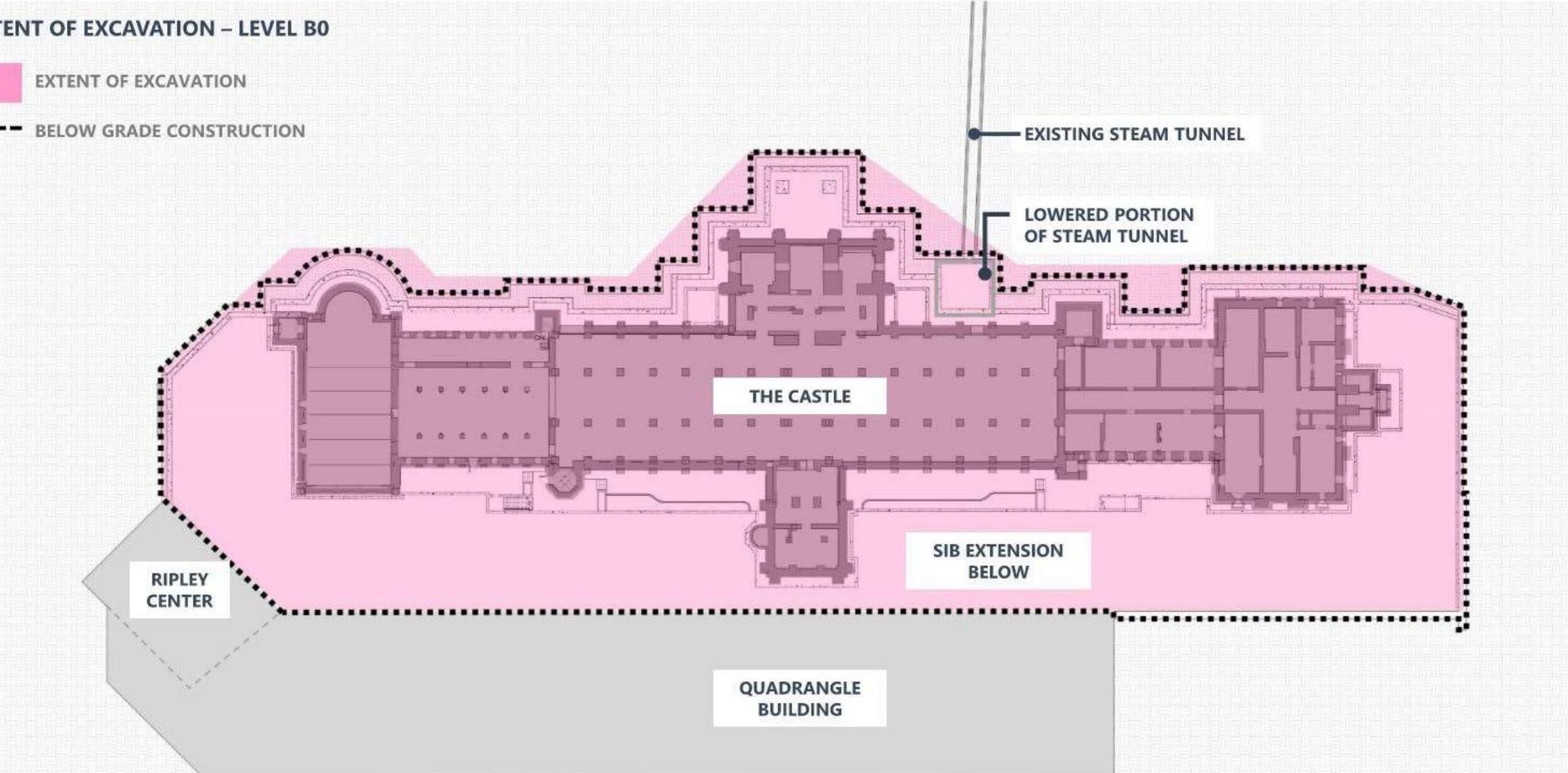


SMITHSONIAN INSTITUTION BUILDING (SIB)

EXTENT OF EXCAVATION – LEVEL B0

EXTENT OF EXCAVATION

BELOW GRADE CONSTRUCTION

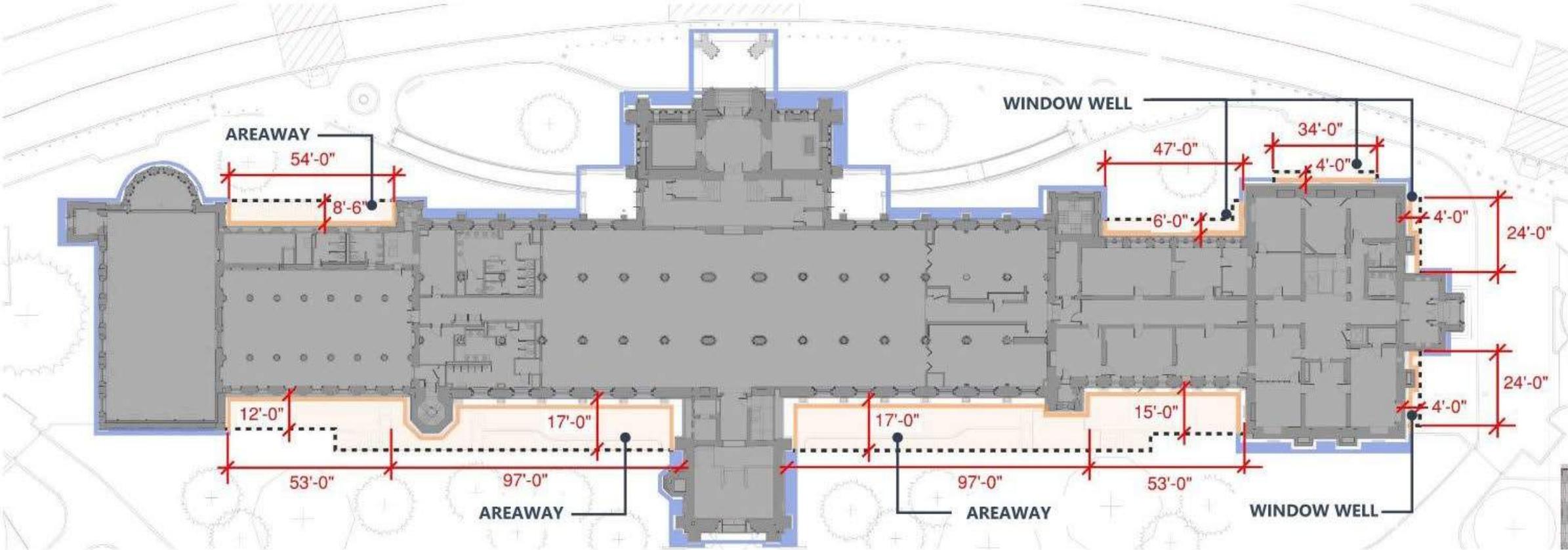


AREAWAYS

SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL

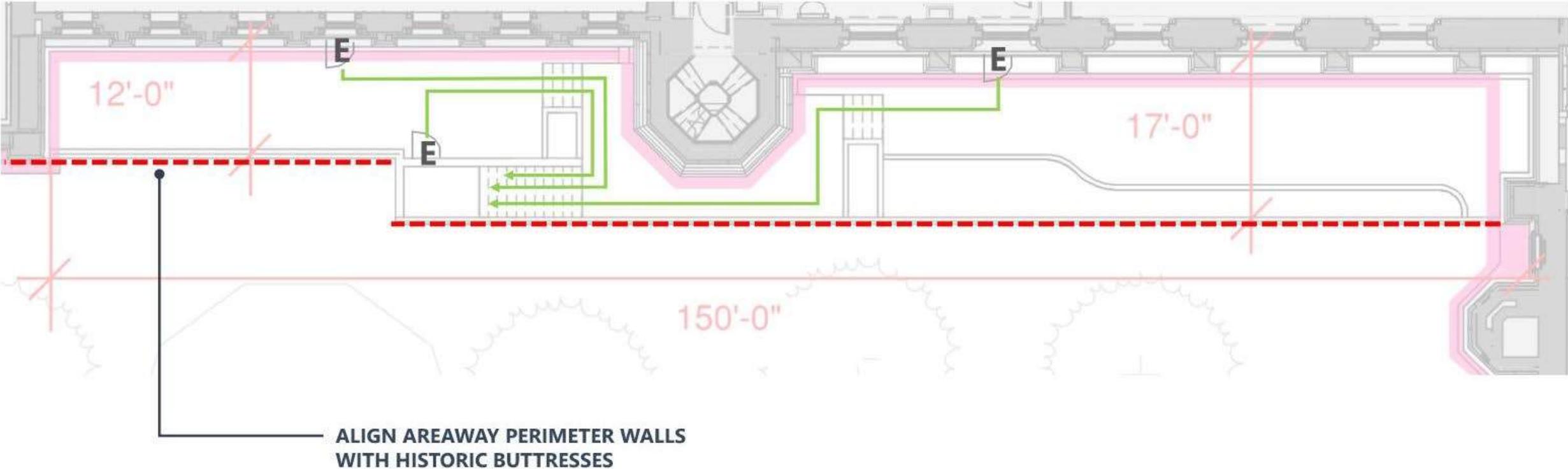
- SEISMIC MOAT WITH JOINT COVER (AT GRADE)
- JOINT COVER (IN AREAWAYS / WINDOW WELLS)



SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL – SOUTHWEST AREAWAY ALIGNMENT (SOUTHEAST AREAWAY SIMILAR)

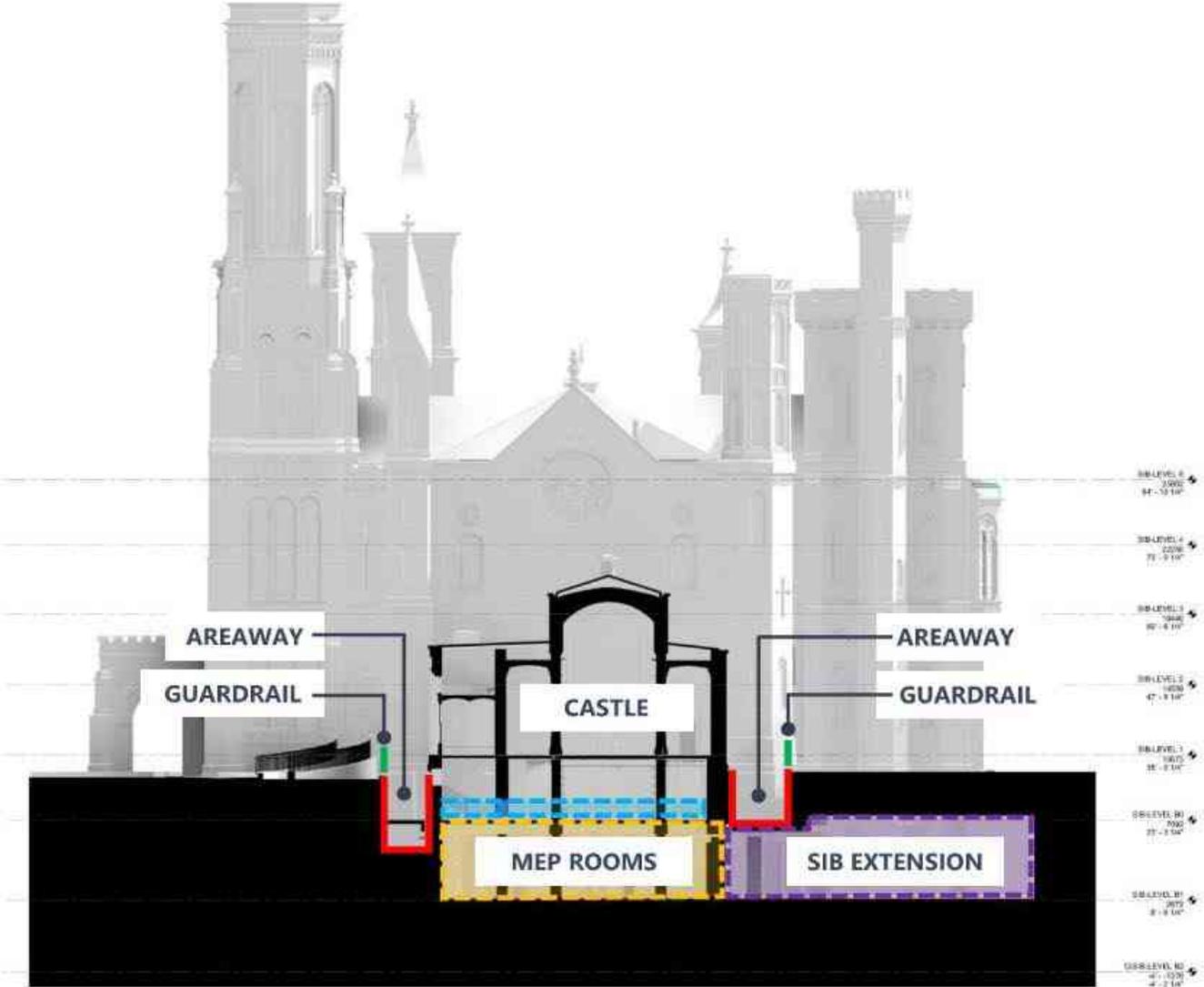
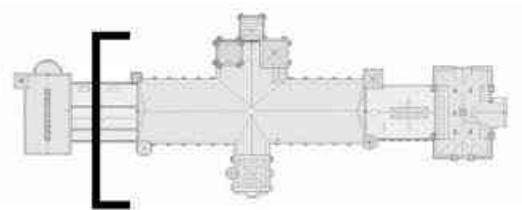
- E** EGRESS DOOR
- EGRESS PATH



SMITHSONIAN INSTITUTION BUILDING (SIB)

TRANSVERSE SECTION – SCHERMER HALL

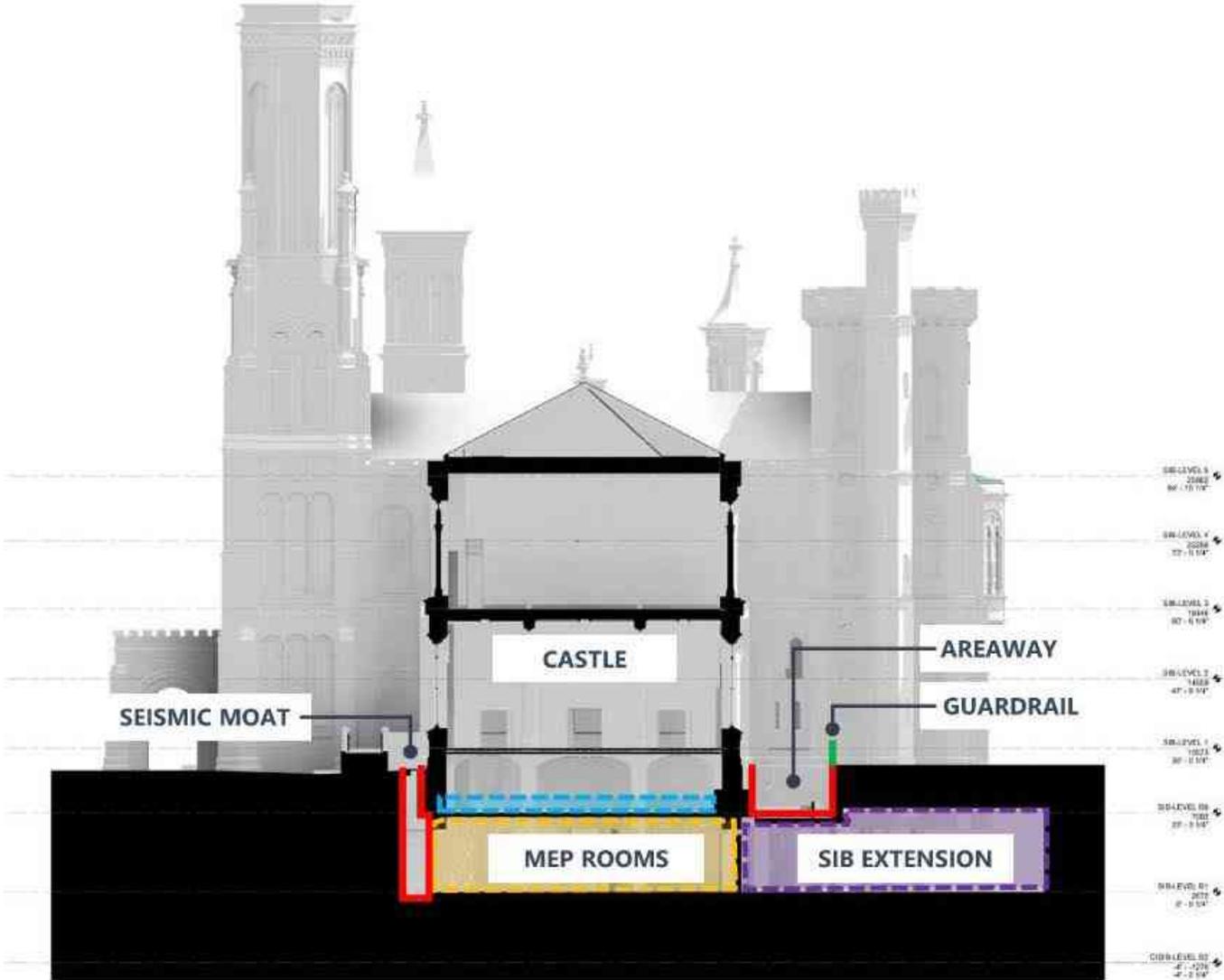
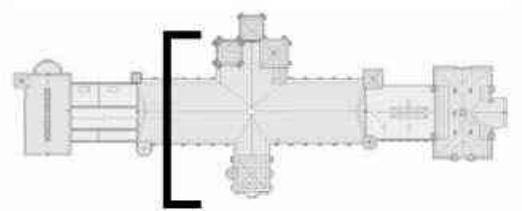
- MEP ROOMS
- SIB EXTENSION
- LOWERED BASEMENT
- PERIMETER FEATURE



SMITHSONIAN INSTITUTION BUILDING (SIB)

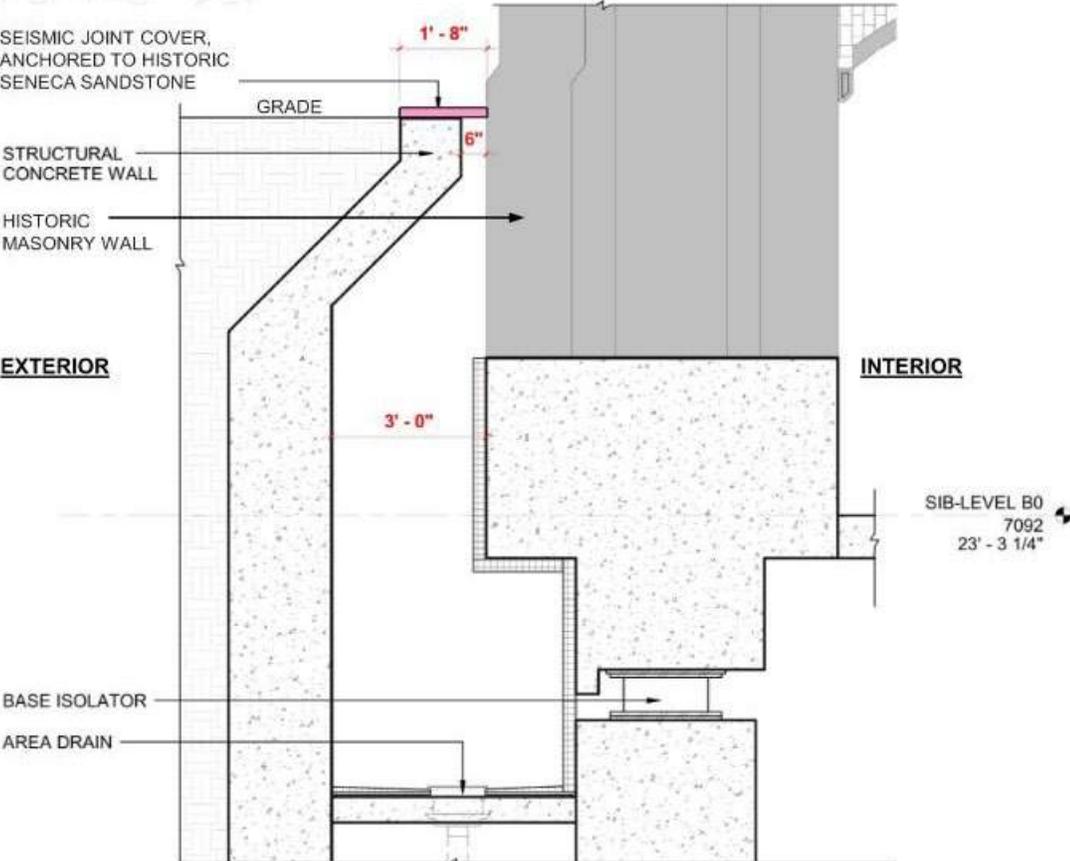
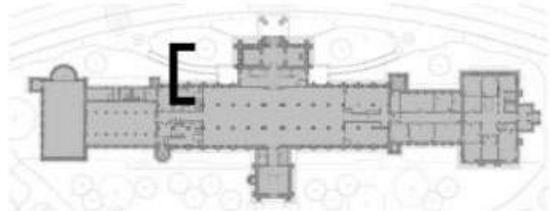
TRANSVERSE SECTION – GREAT HALL

- MEP ROOMS
- SIB EXTENSION
- LOWERED BASEMENT
- PERIMETER FEATURE

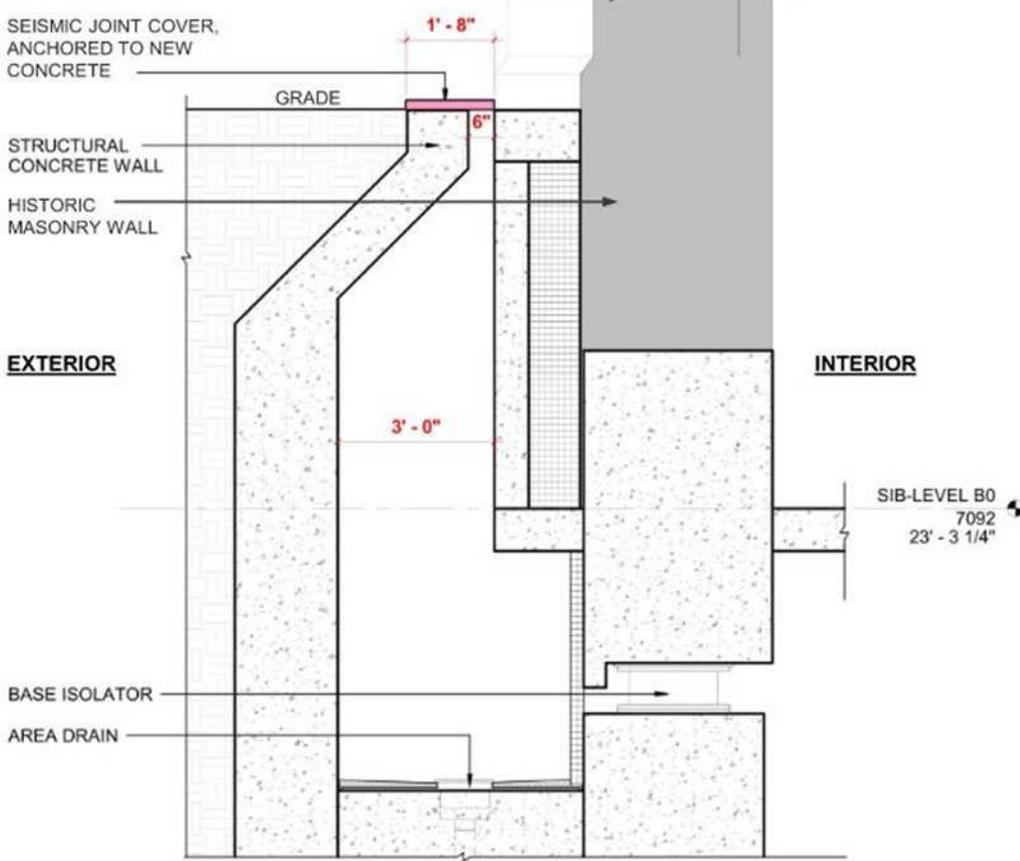


SMITHSONIAN INSTITUTION BUILDING (SIB)

TYPICAL SEISMIC MOAT AT NORTH ELEVATION



SECTION AT BUTTRESS

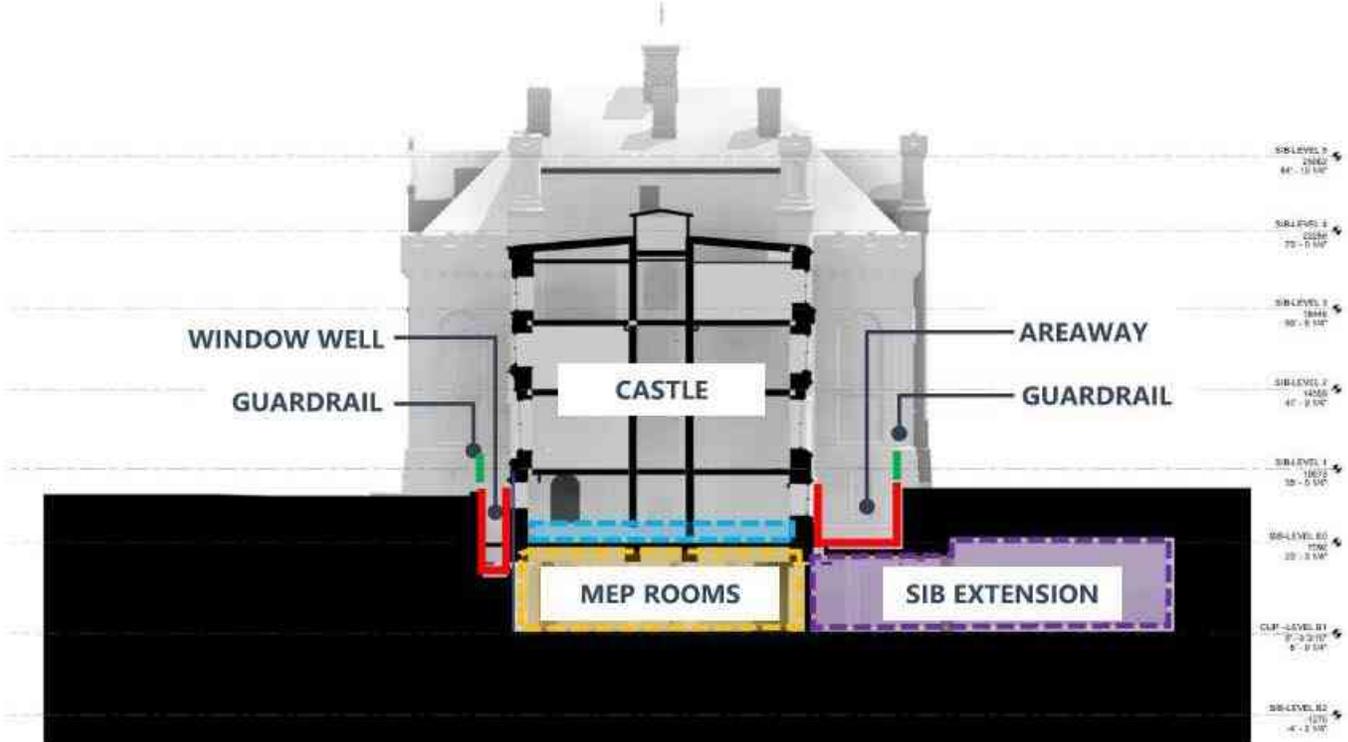
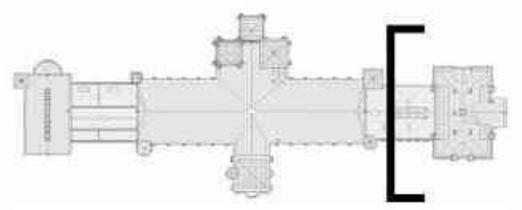


SECTION BETWEEN BUTTRESSES

SMITHSONIAN INSTITUTION BUILDING (SIB)

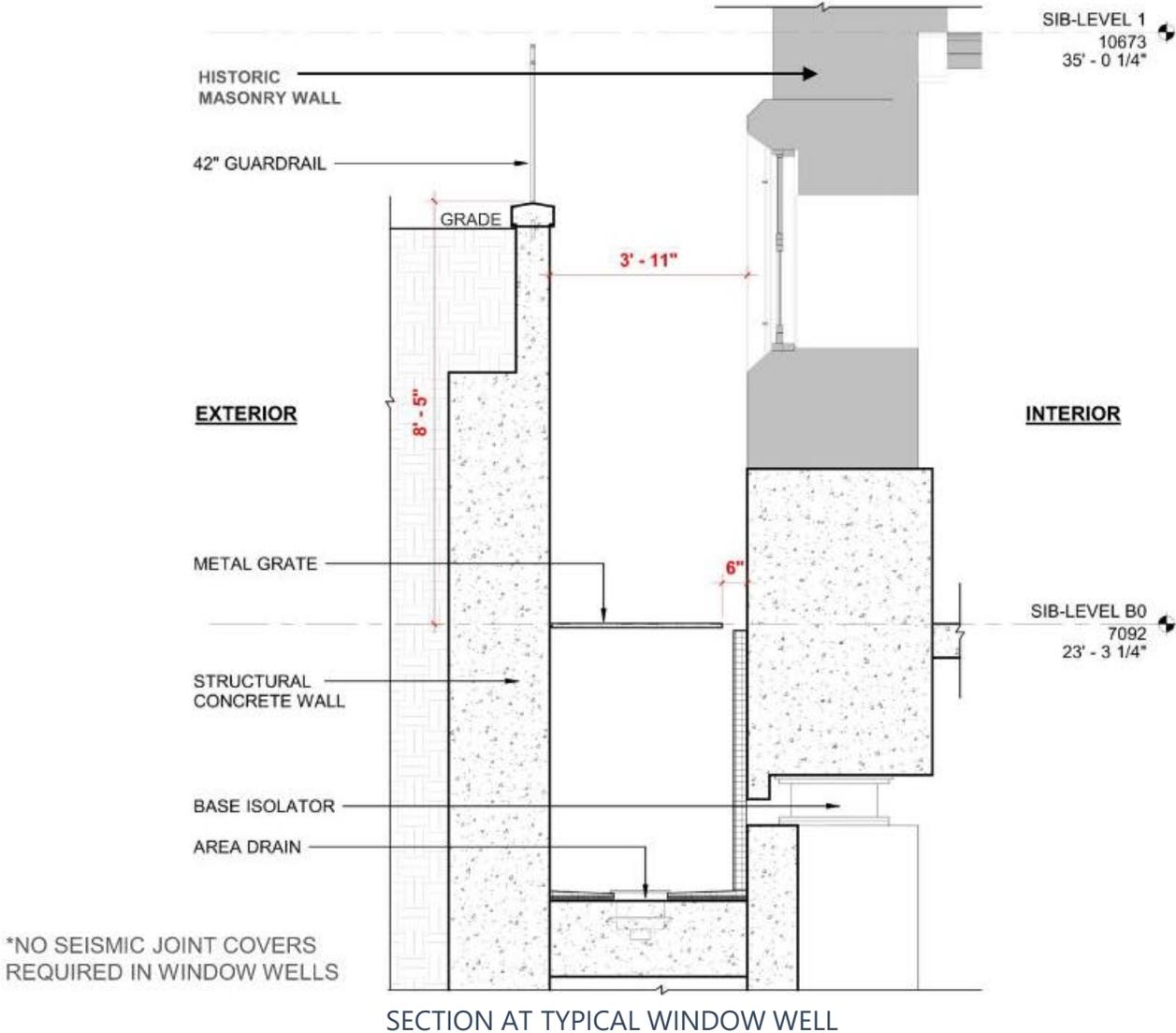
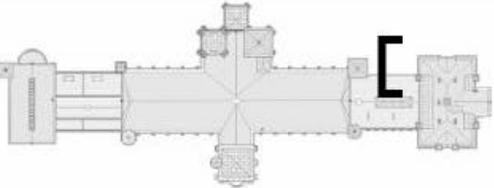
TRANSVERSE SECTION – EAST RANGE

- MEP ROOMS
- SIB EXTENSION
- LOWERED BASEMENT
- PERIMETER FEATURE



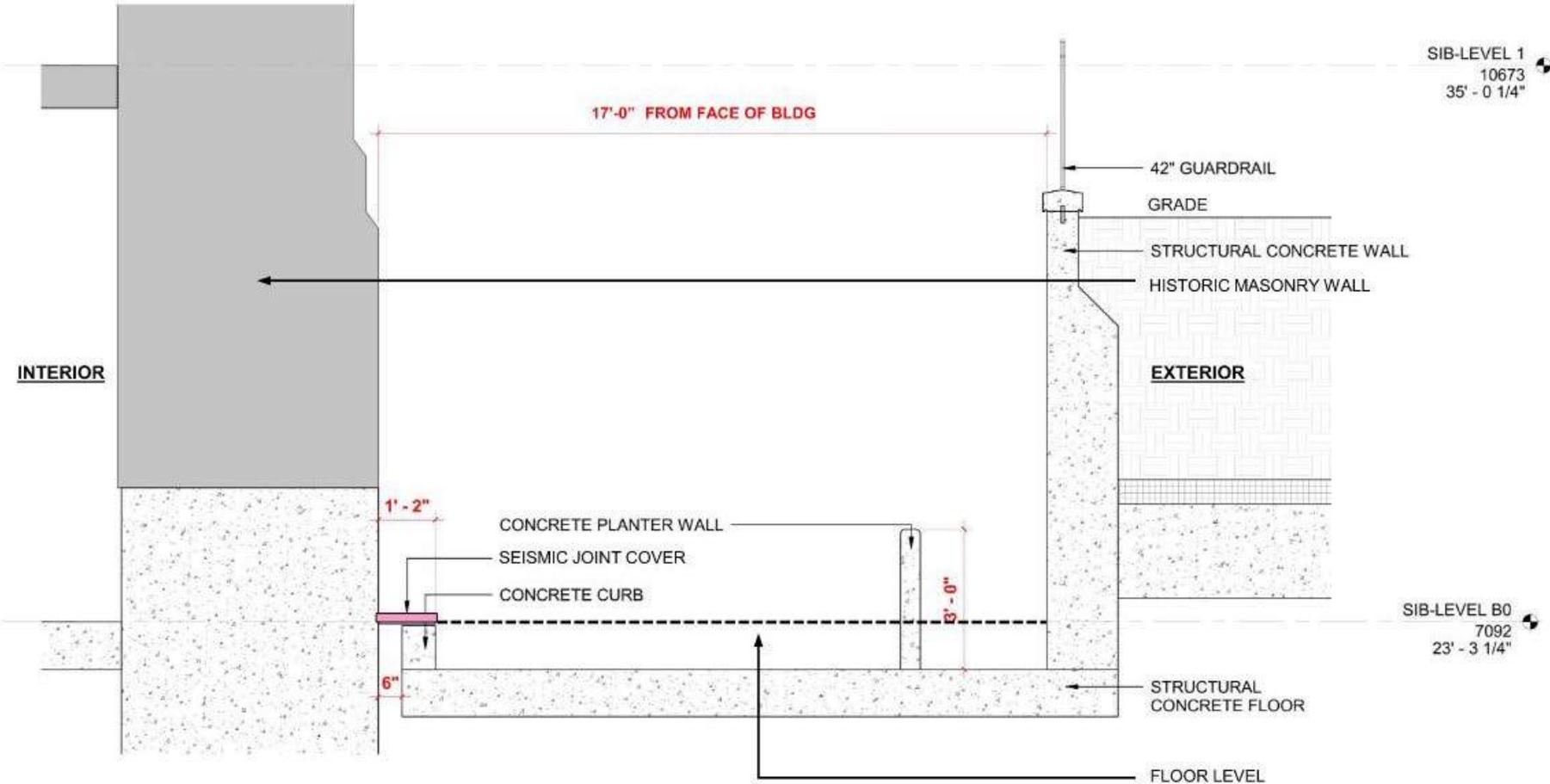
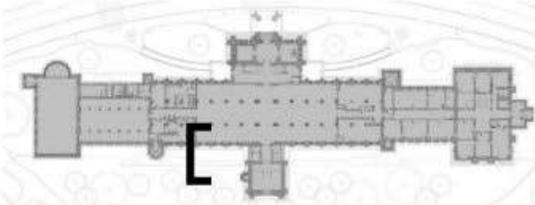
SMITHSONIAN INSTITUTION BUILDING (SIB)

TYPICAL WINDOW WELL



SMITHSONIAN INSTITUTION BUILDING (SIB)

TYPICAL AREAWAY

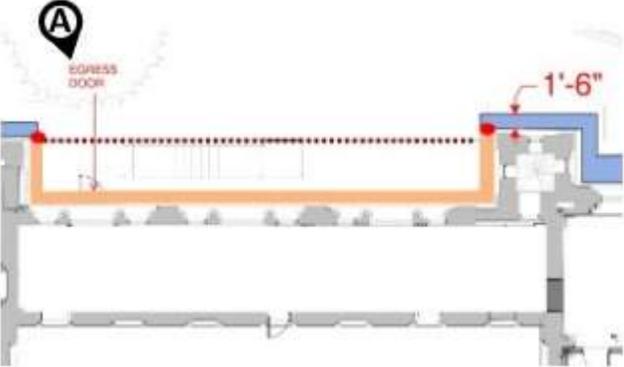


SECTION AT AREAWAY

SMITHSONIAN INSTITUTION BUILDING (SIB)

AREAWAY VISIBILITY

WEST RANGE (NORTH)



Existing West Range

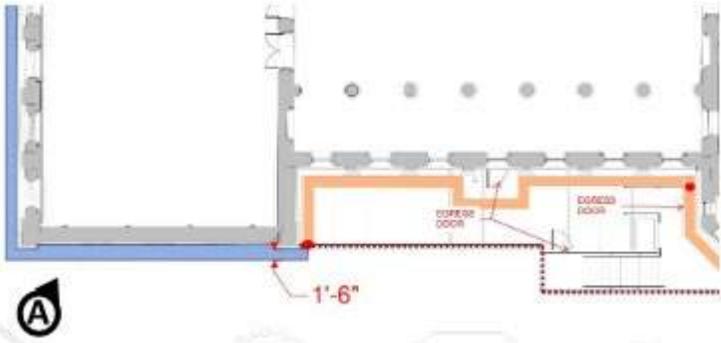


Conceptual Seismic Moat Cover Visualization
Note: The design of the railing at the areaway is in development- this image utilizes the design of the existing railings at the north entrance ramp

SMITHSONIAN INSTITUTION BUILDING (SIB)

AREAWAY VISIBILITY

SOUTHWEST AREAWAY



Existing Southwest Facade

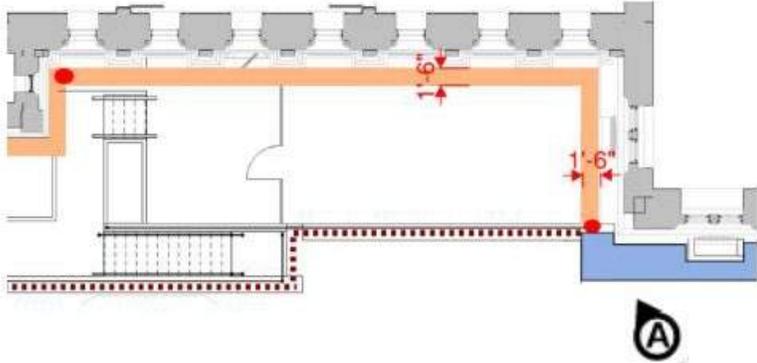


Conceptual Seismic Moat Cover Visualization
Note: The design of the railing at the areaway is in development- this image utilizes the design of the existing railings at the north entrance ramp

SMITHSONIAN INSTITUTION BUILDING (SIB)

AREAWAY VISIBILITY

SOUTHEAST AREAWAY



Existing Southeast Facade



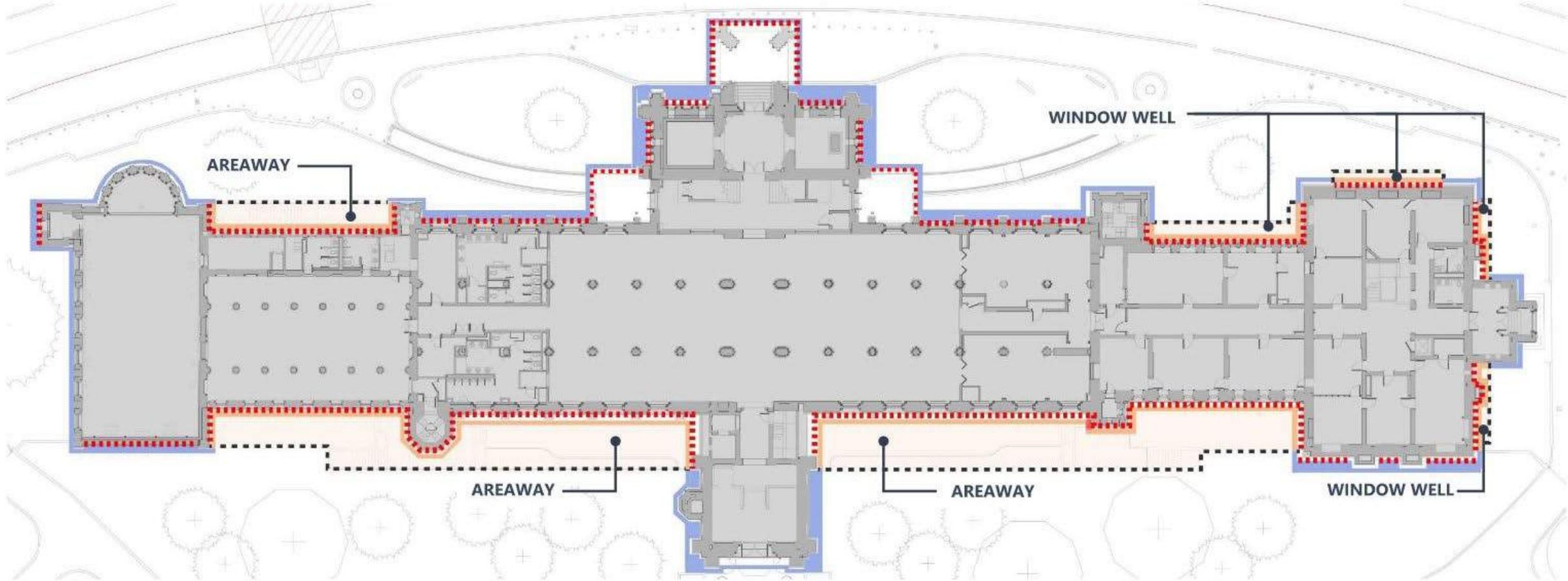
Conceptual Seismic Moat Cover Visualization
Note: The design of the railing at the areaway is in development- this image utilizes the design of the existing railings at the north entrance ramp

SEISMIC CONTROL

SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL

- 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**



SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL

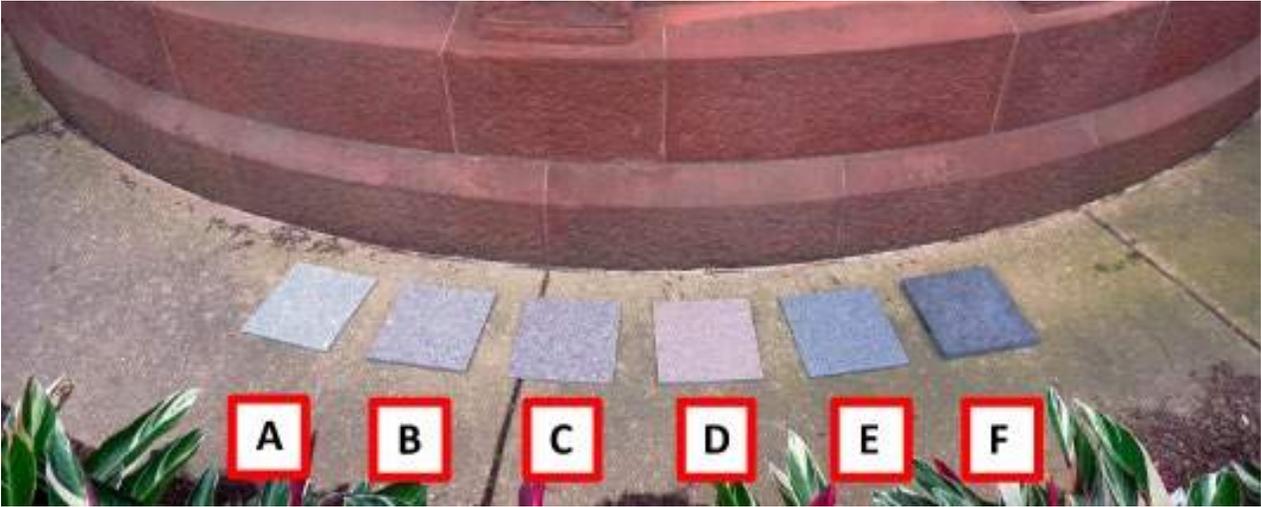
In-Person Review of Material Samples on September 7, 2022

- 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
- Additional comments on the samples are welcome



In-Person Viewing Locations

- Location 1: Jefferson Drive, near the apse of West Wing (Commons).
- Location 2: Jefferson Drive, near the east entrance of the North Tower.
- Location 3: Haupt Garden, outside South Entrance.



Six Granite Alternatives Available for Consideration at Each Viewing Location

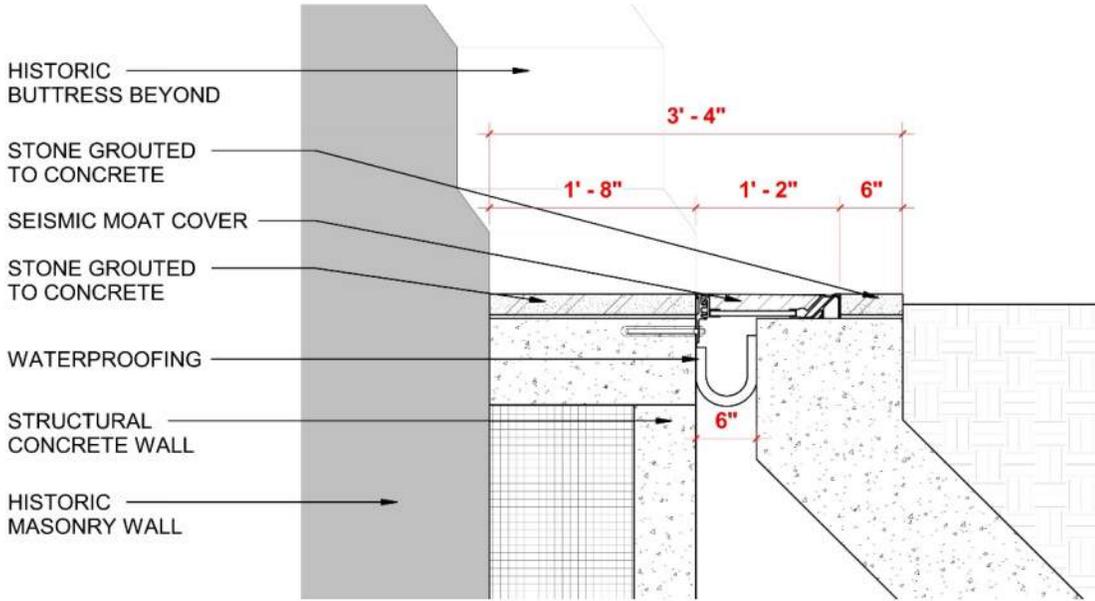
- | | |
|---|---|
| A: Royal Auburn, Coldspring Granite | D: Radiant Red, Coldspring Granite |
| B: Prairie Brown, Coldspring Granite | E: Academy Black, Coldspring Granite |
| C: Carnelian, Coldspring Granite | F: Olympic Black, Vermont Stone Art |

SMITHSONIAN INSTITUTION BUILDING (SIB)

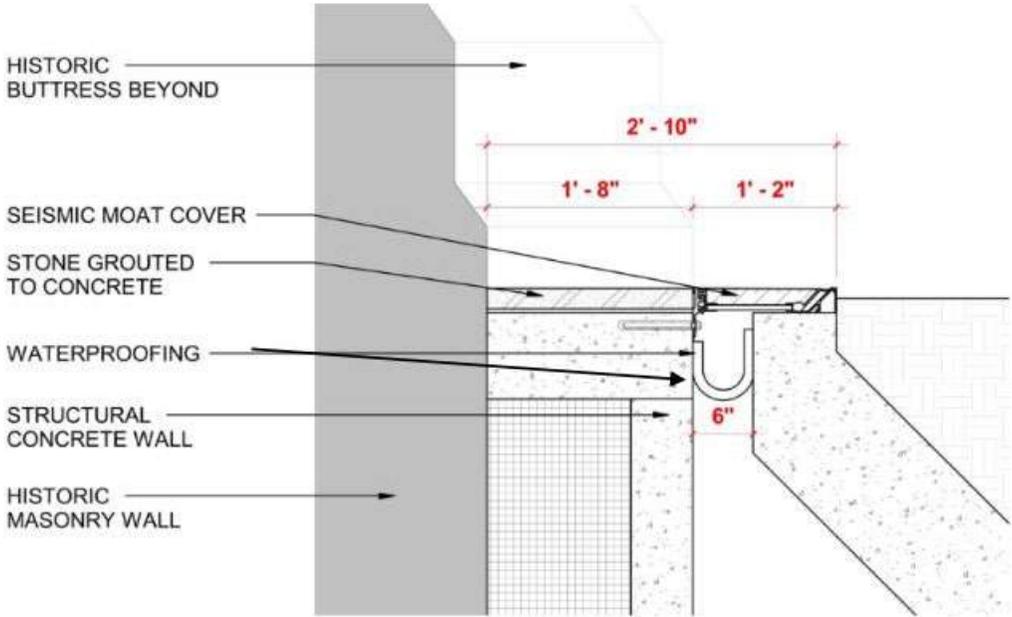
SEISMIC CONTROL

Project Scope

- Seismic joint as regular as possible.
- Cover plate width varies to accommodate the Castle's unique geometry.



SEISMIC JOINT COVER WITH STONE EDGING



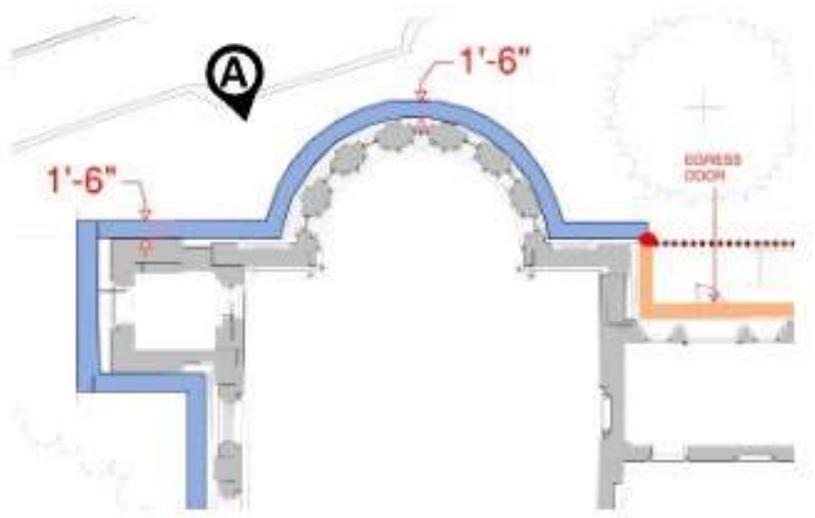
SEISMIC JOINT COVER WITH FINISHED METAL EDGE

SMITHSONIAN INSTITUTION BUILDING (SIB)

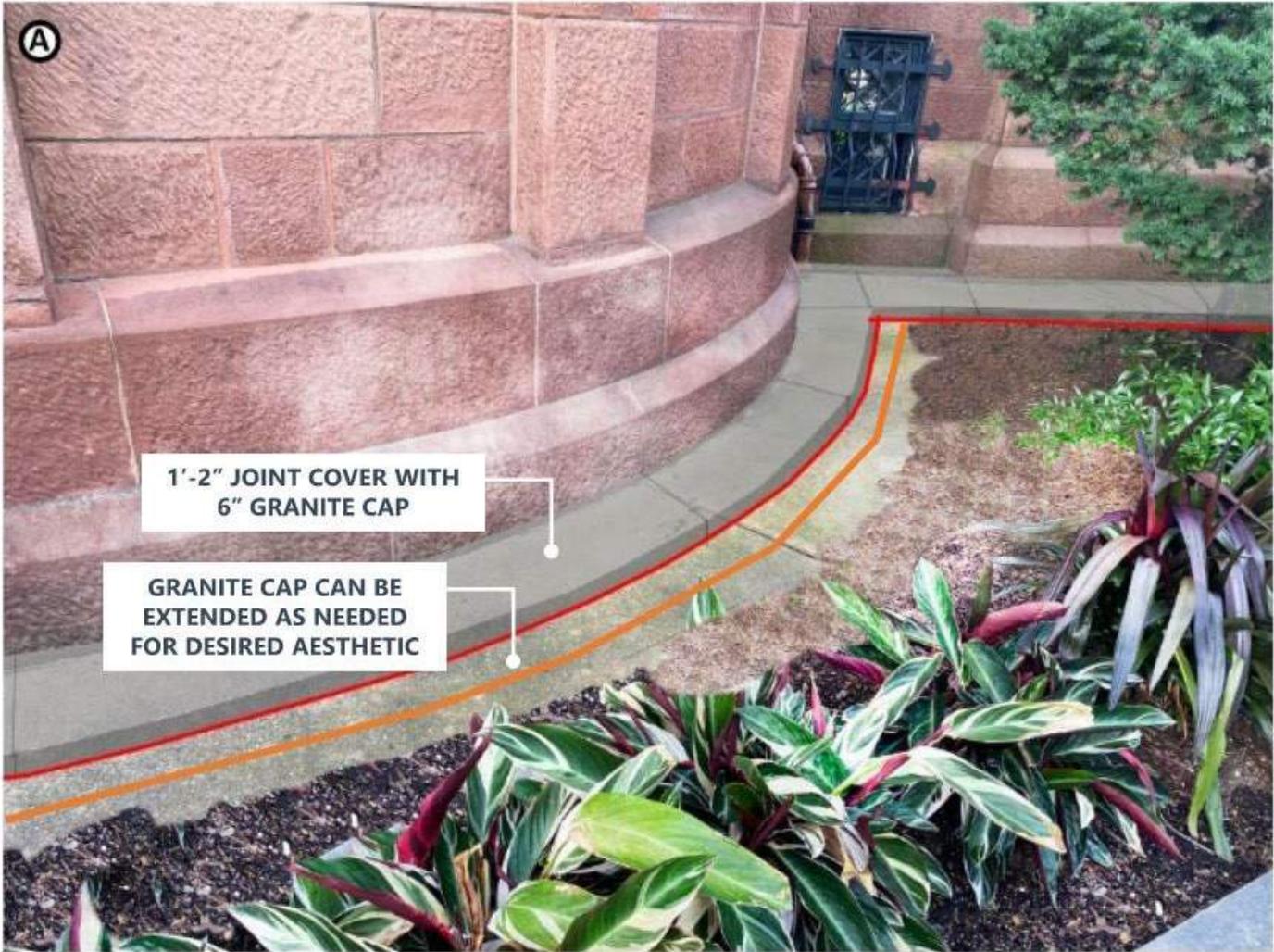
SEISMIC CONTROL

Comments from some Consulting Parties:

- Suggested that there may be areas of the building (for instance around the Commons) where we want the joint cover to be larger than the 1'-6" typical. 20-24" may be more appropriate.



PARTIAL PLAN



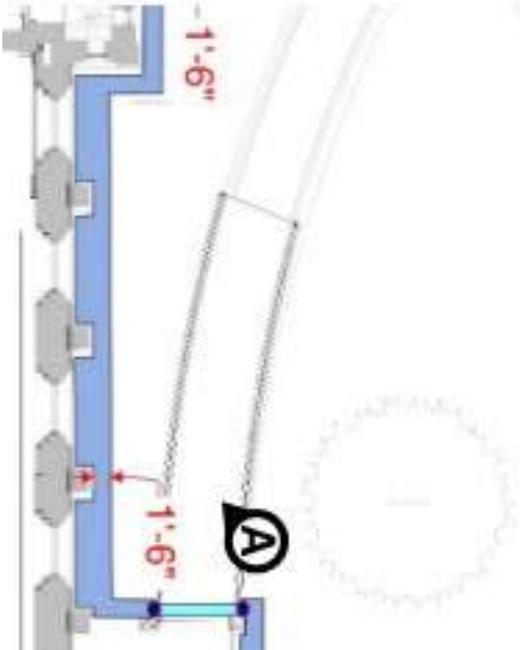
Conceptual Seismic Joint Cover Visualization

SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL

Comments from some Consulting Parties:

- Concern about the number of joints in the stone for the seismic joint cover (depth).



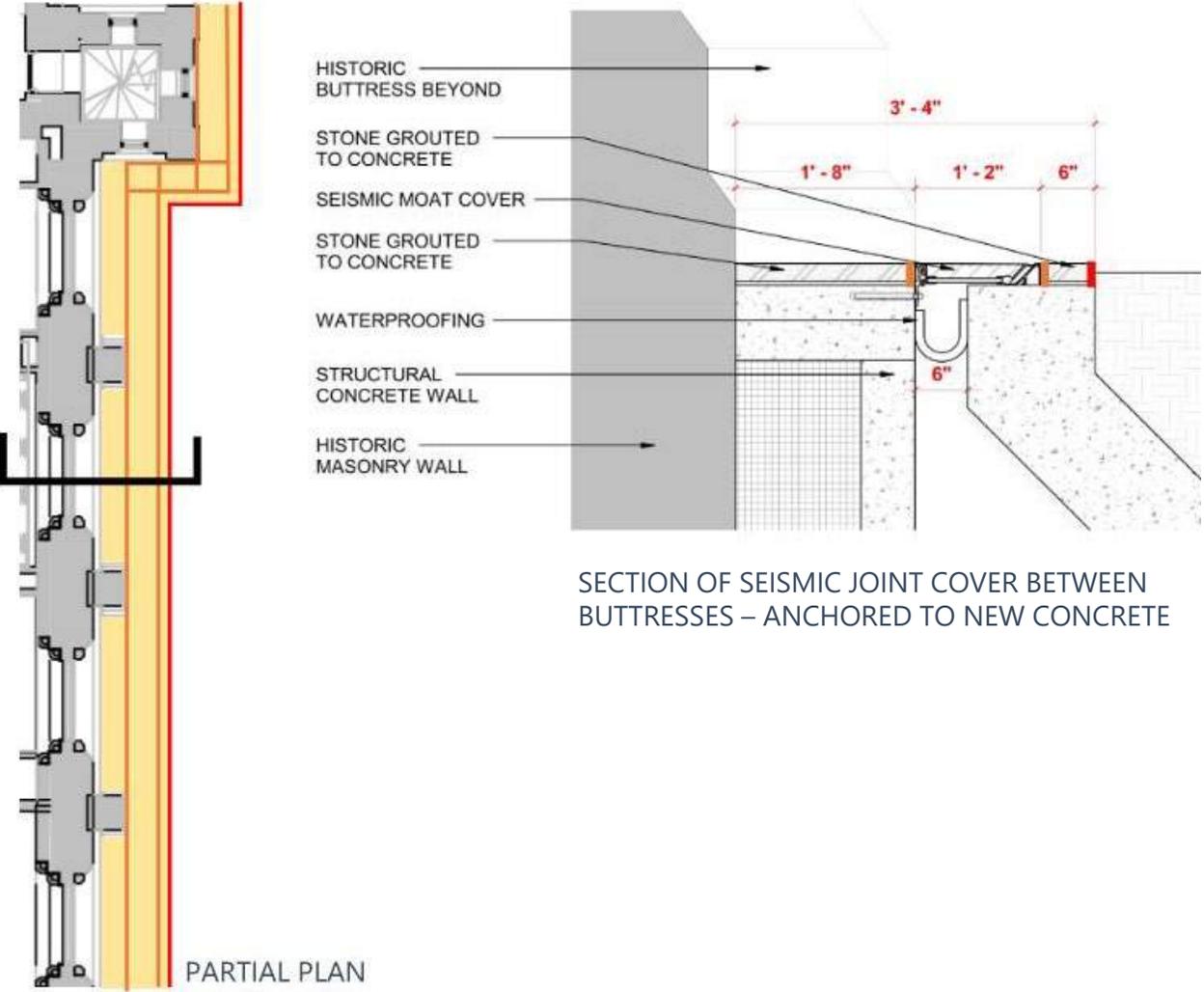
PARTIAL PLAN



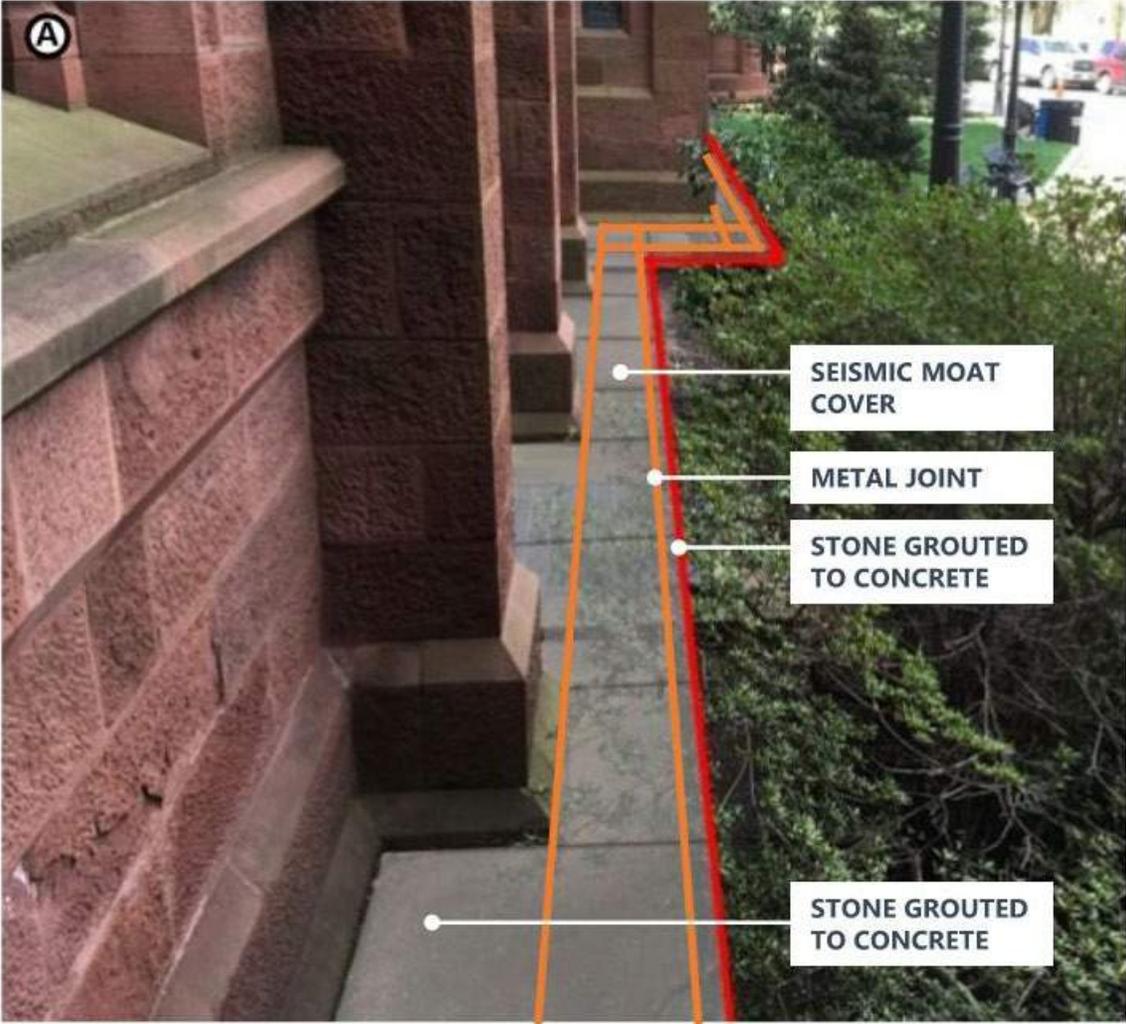
Conceptual Seismic Joint Cover Visualization

SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL – JOINT OPTION 1A



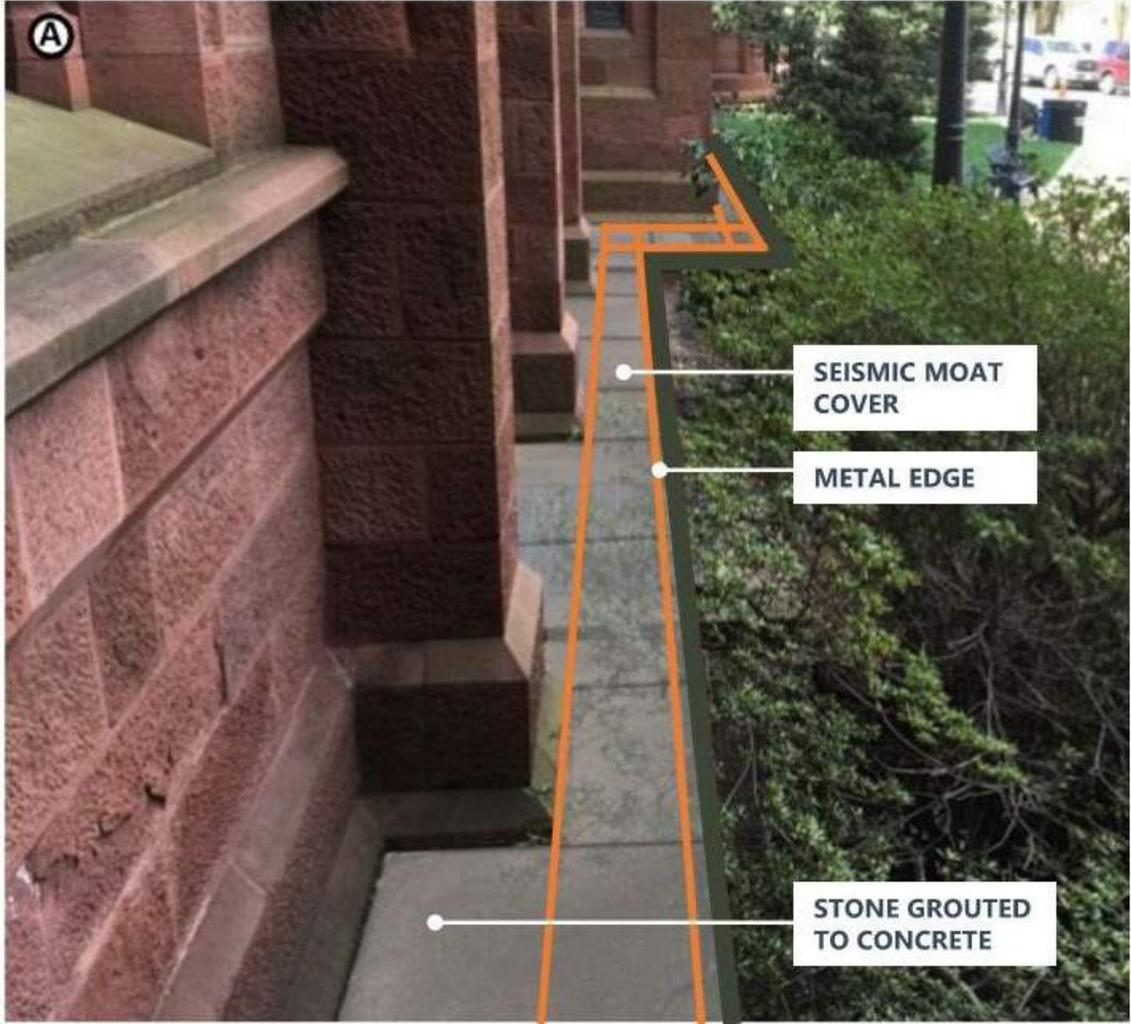
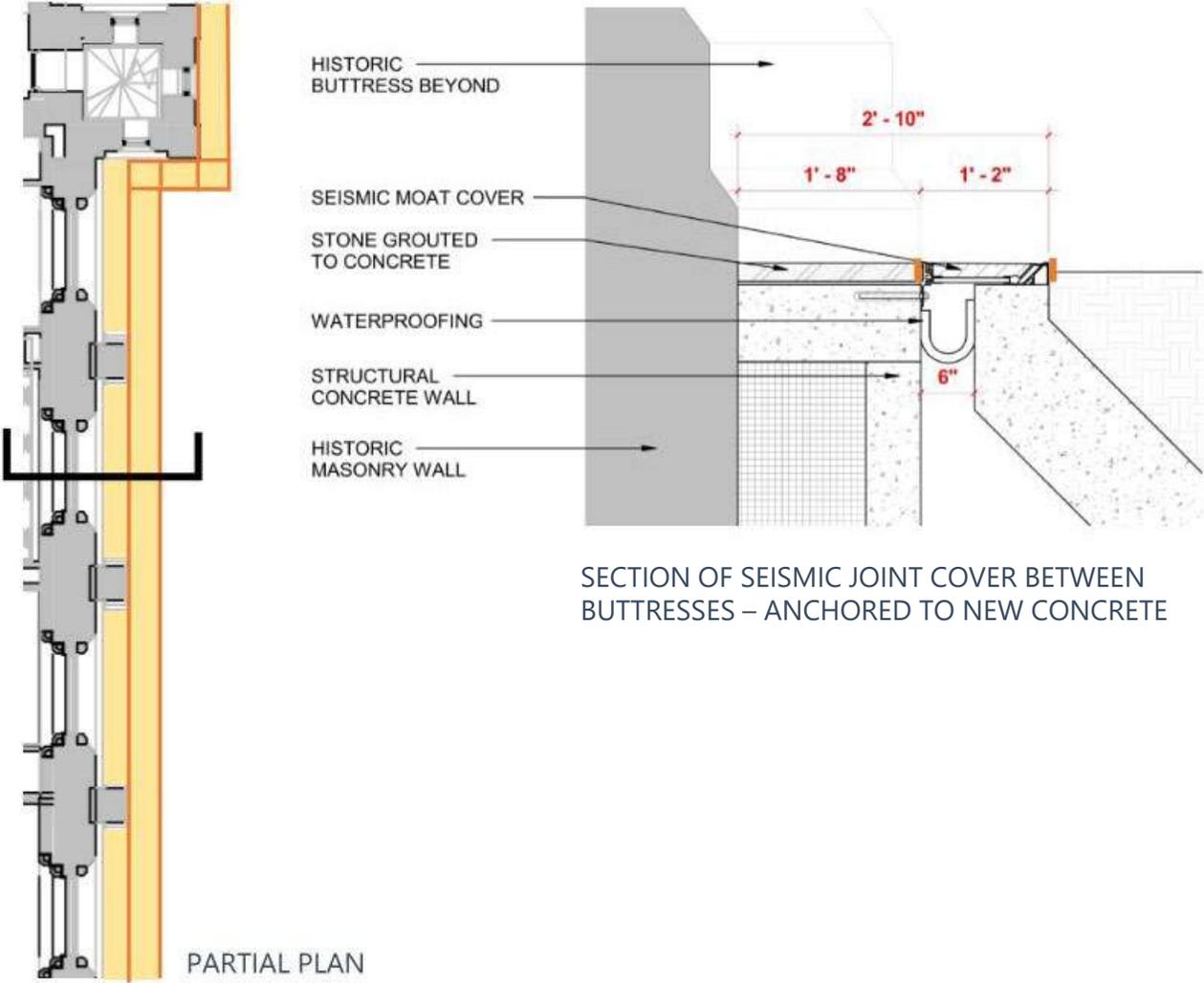
SECTION OF SEISMIC JOINT COVER BETWEEN BUTTRESSES – ANCHORED TO NEW CONCRETE



Conceptual Seismic Joint Cover Visualization

SMITHSONIAN INSTITUTION BUILDING (SIB)

SEISMIC CONTROL – JOINT OPTION 1B



Conceptual Seismic Joint Cover Visualization

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

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Faye Harwell, FASLA, Landscape Architect, RHI (Rhodeside and Harwell)



PERIMETER SECURITY

SMITHSONIAN INSTITUTION BUILDING (SIB)

PERIMETER SECURITY ELEMENTS – ON SITE MOCKUP
SEPTEMBER 7, 2022



Conceptual bollard configuration inside porte-cochere

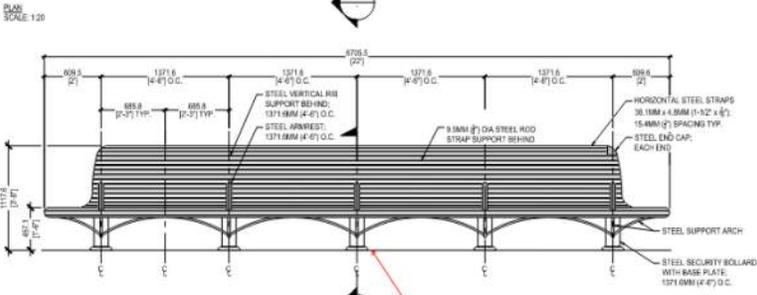
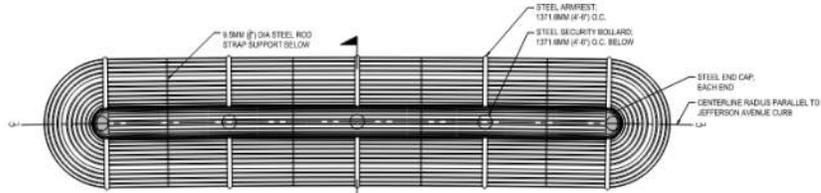


Conceptual bollard configuration at west side of porte-cochere with hardened bench massing taped-out on pavement

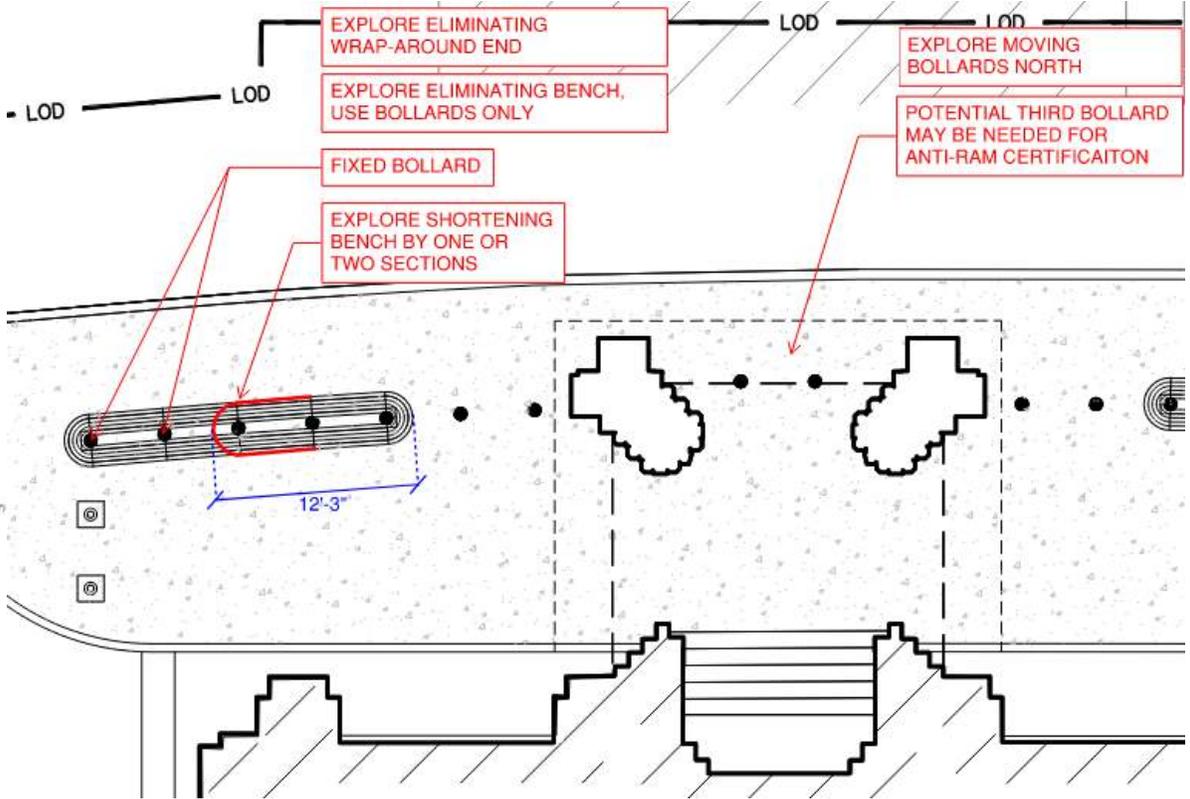
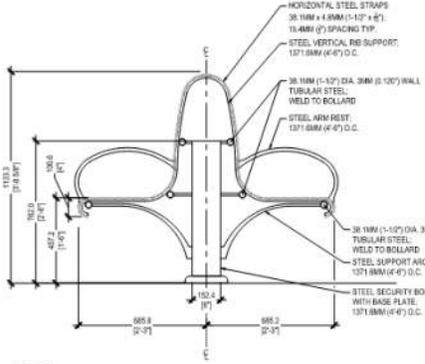
SMITHSONIAN INSTITUTION BUILDING (SIB)

PERIMETER SECURITY ELEMENTS

COMMENTS FROM CONSULTING PARTIES

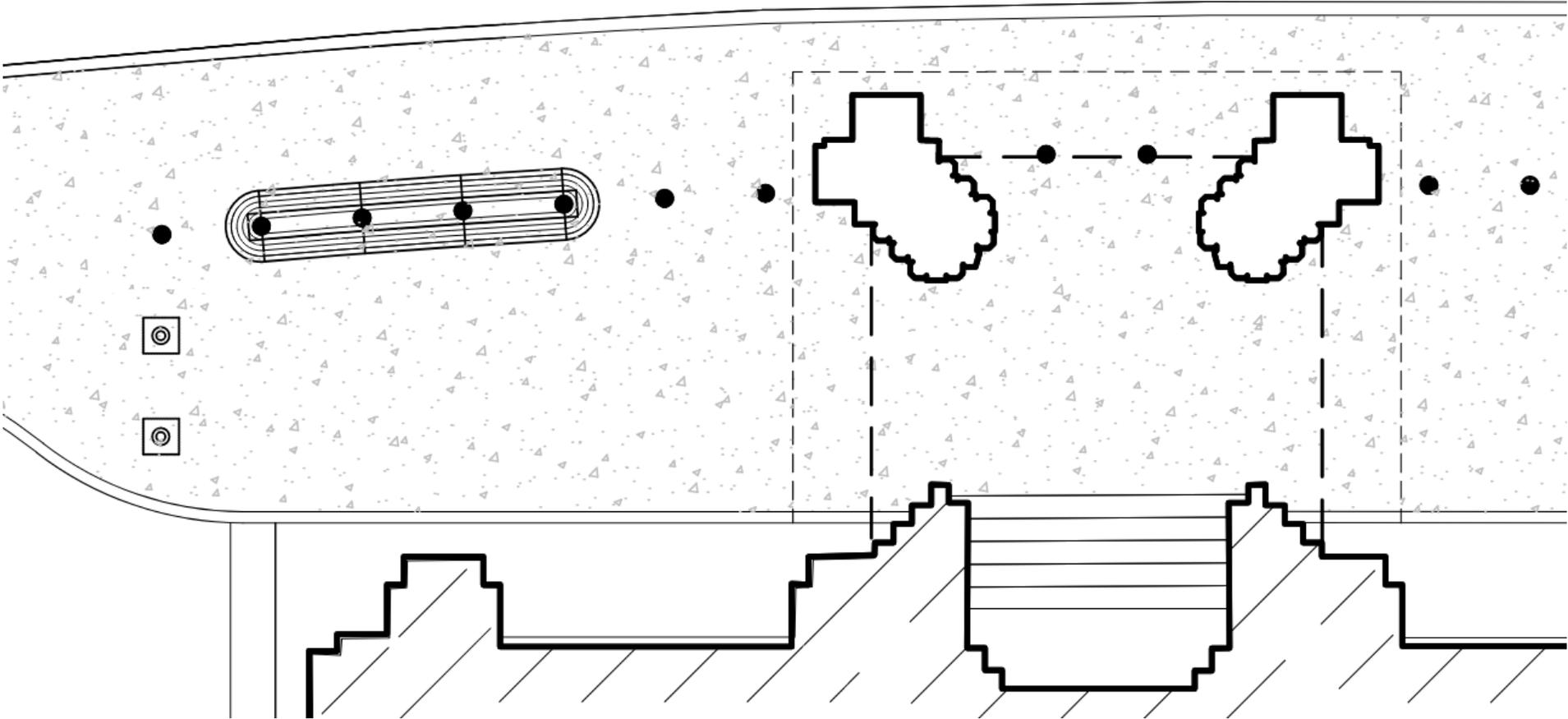


EXPLORE BENCH DESIGN WITHOUT A STONE BASE



SMITHSONIAN INSTITUTION BUILDING (SIB)

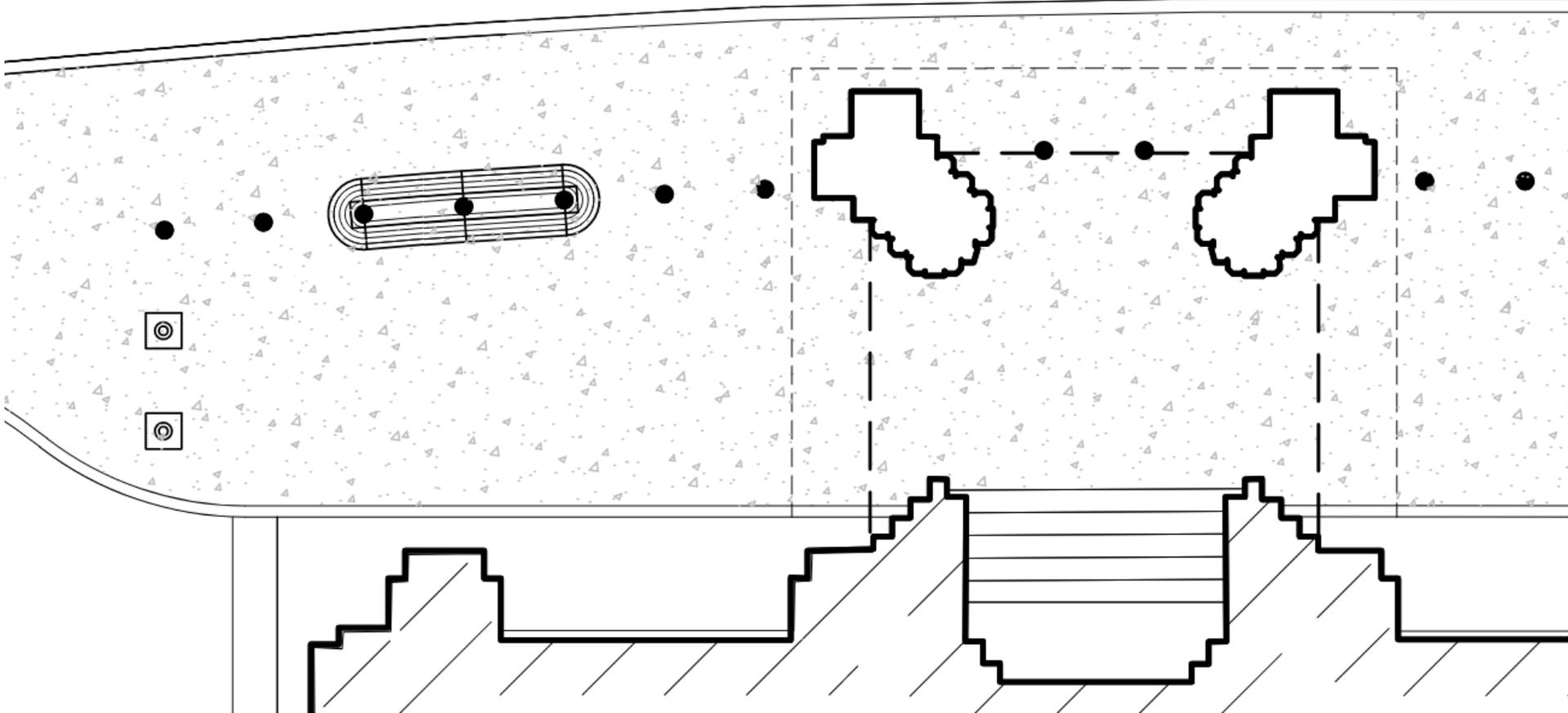
SHORTENED BENCH (3-SECTIONS)



*Curb at lawn to be adjusted for seismic joint

SMITHSONIAN INSTITUTION BUILDING (SIB)

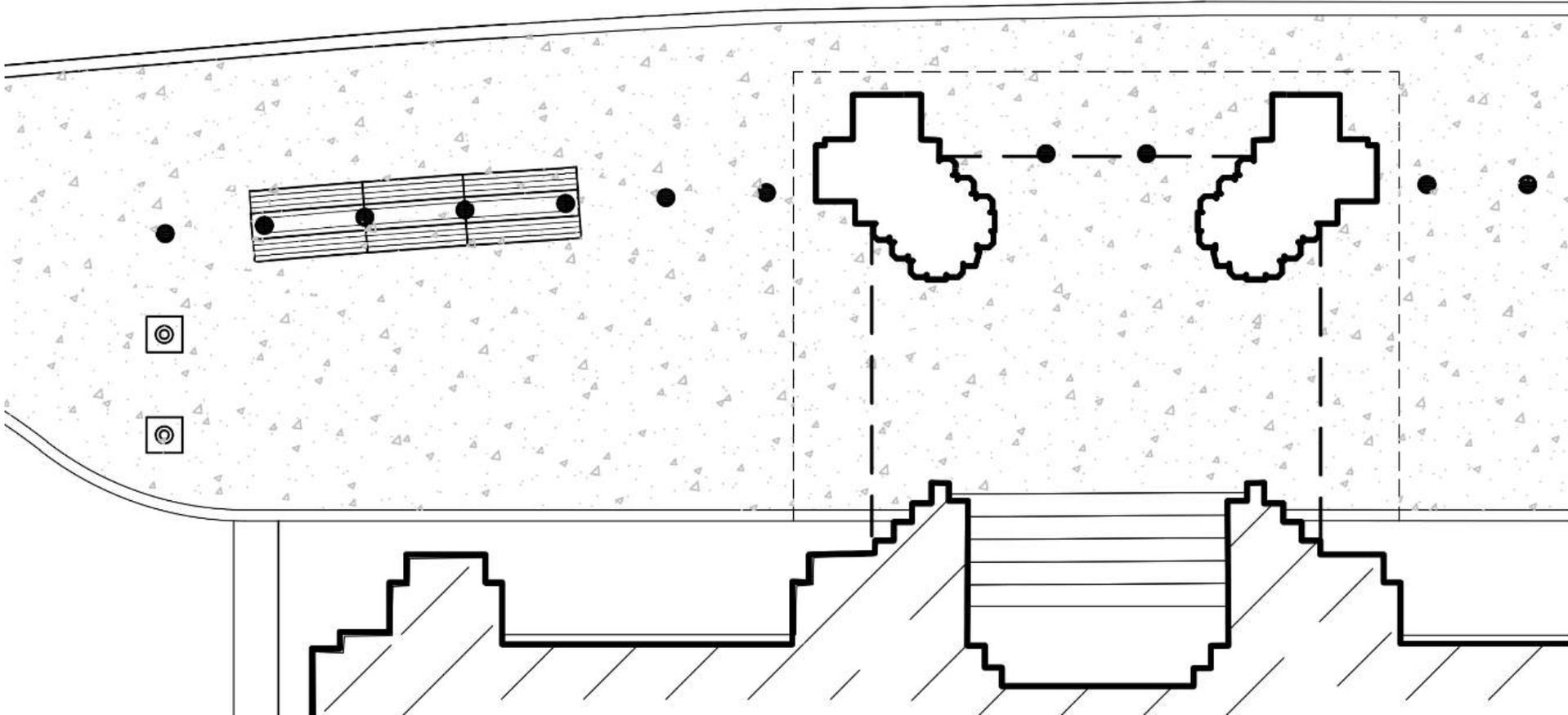
SHORTENED BENCH (2-SECTIONS)



*Curb at lawn to be adjusted for seismic joint

SMITHSONIAN INSTITUTION BUILDING (SIB)

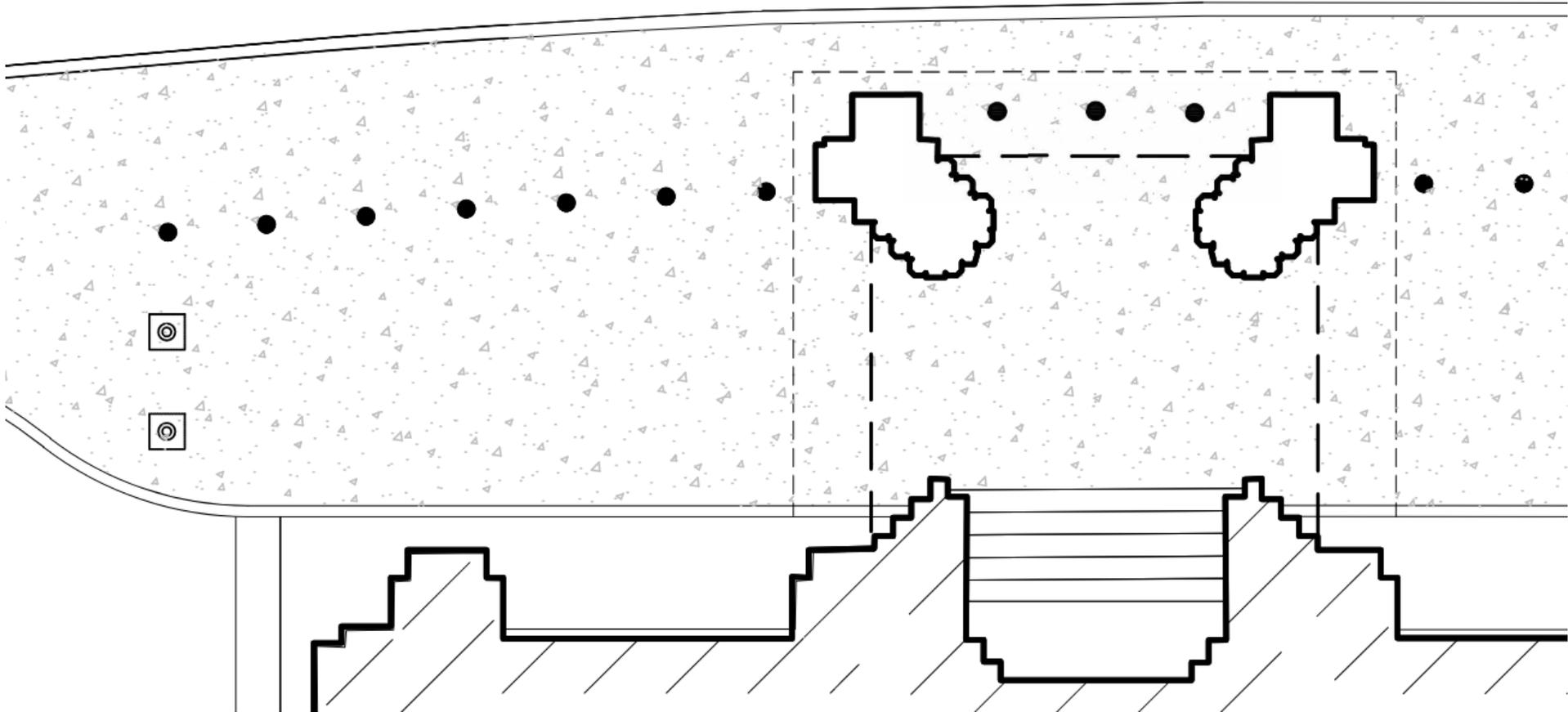
NO WRAP-AROUND END



*Curb at lawn to be adjusted for seismic joint

SMITHSONIAN INSTITUTION BUILDING (SIB)

NO BENCH; 3 BOLLARDS AT PORTE COCHERE



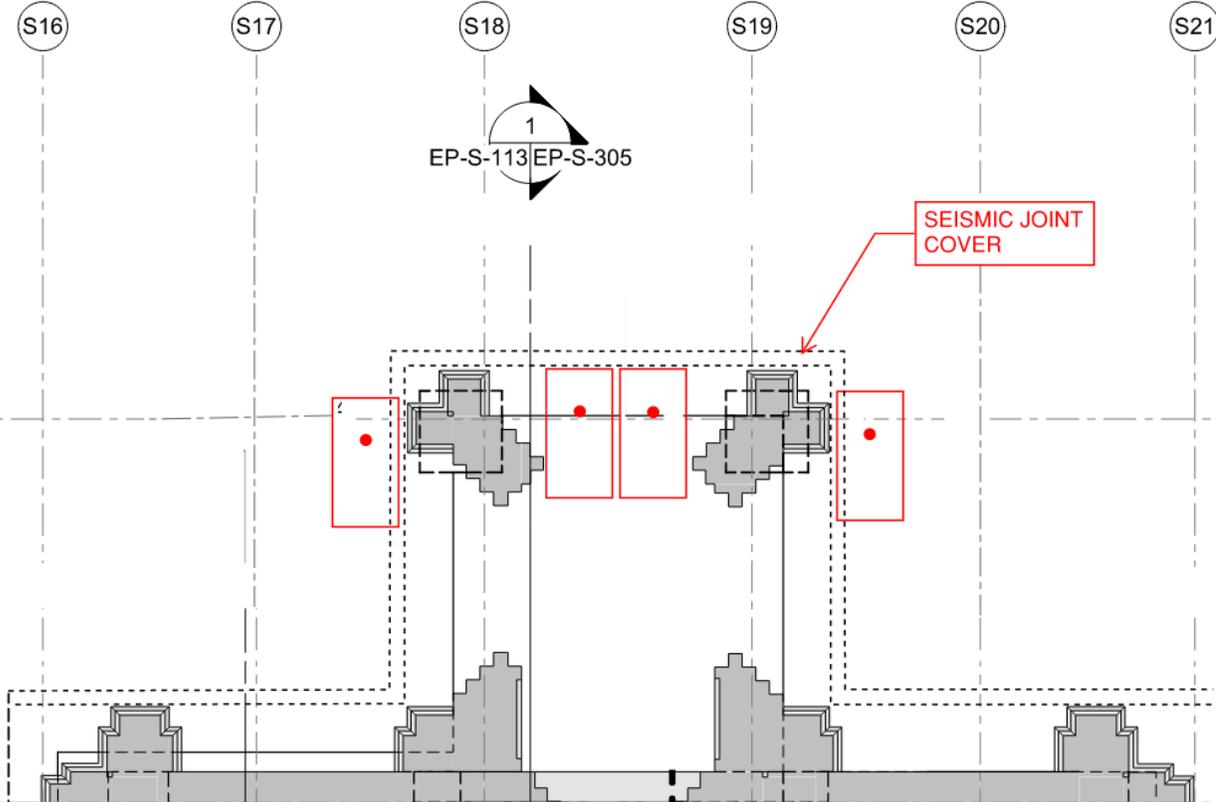
*Curb at lawn to be adjusted for seismic joint

SMITHSONIAN INSTITUTION BUILDING (SIB)

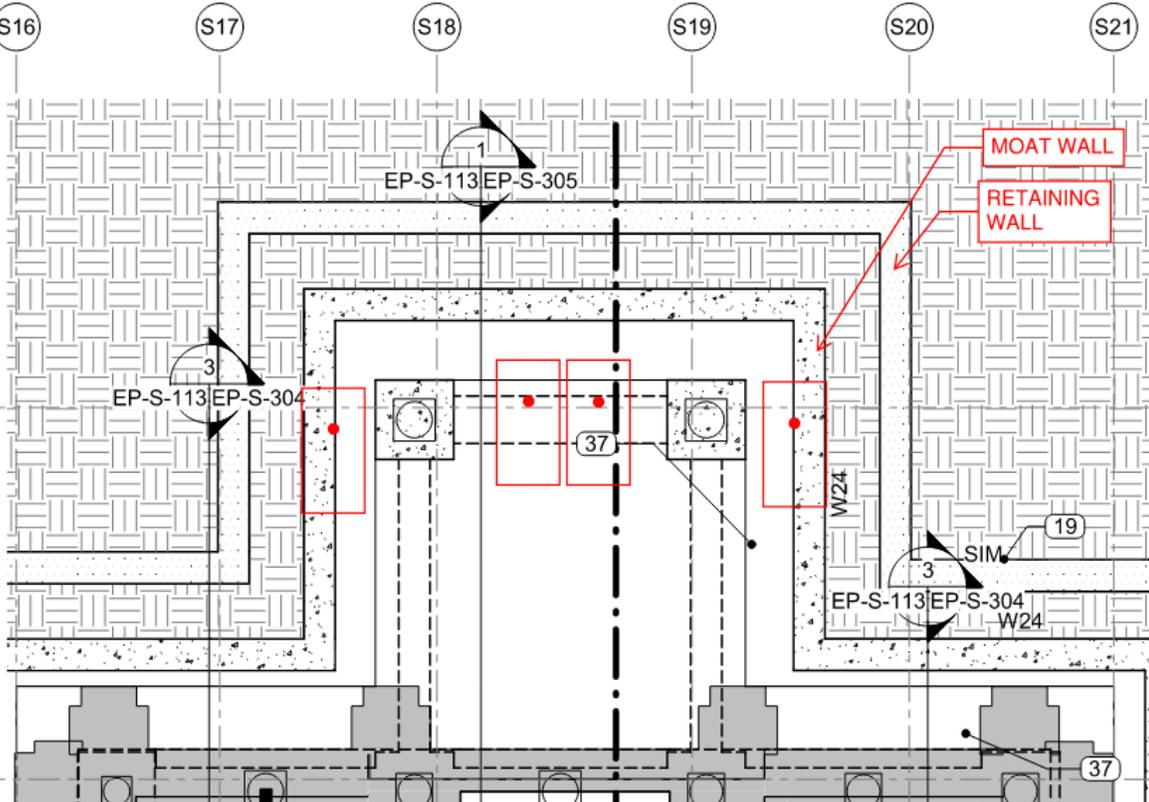
PERIMETER SECURITY ELEMENTS

BOLLARDS

- Typical bollard footing is approximately 30" W x 60" L x 36" D



BOLLARD FOOTING (SHOWN AT GRADE)



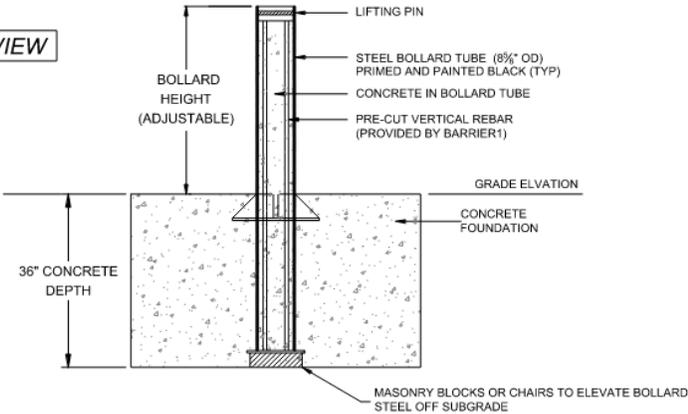
BOLLARD FOOTING (SHOWN BELOW GRADE)

SMITHSONIAN INSTITUTION BUILDING (SIB)

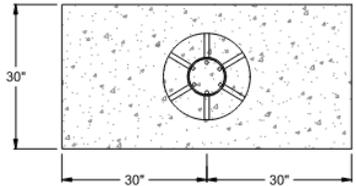
PERIMETER SECURITY ELEMENTS

- Bollard foundation to be custom designed by project structural engineer to accommodate both bollard and seismic joint requirements

FRONT VIEW



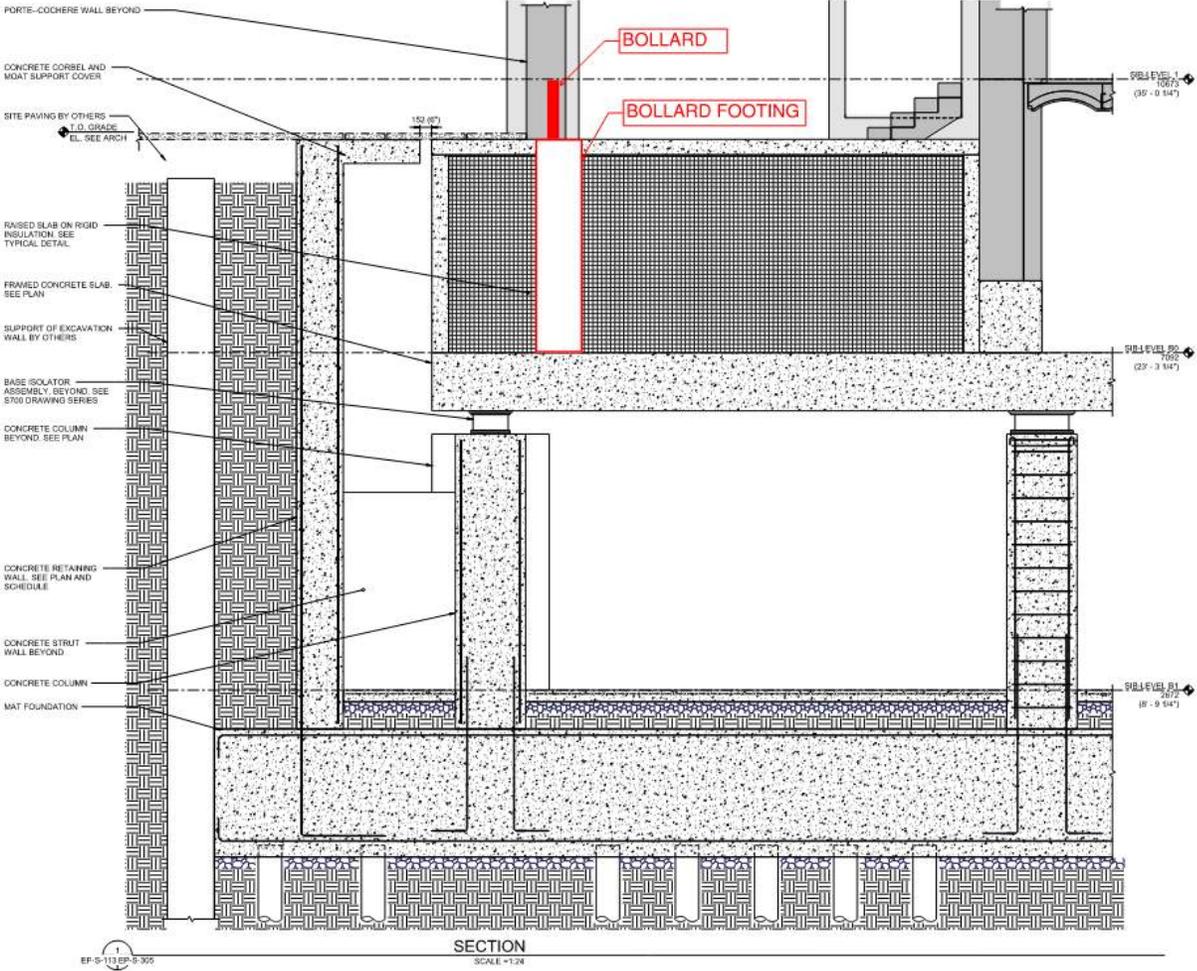
TOP VIEW



KEY CAPABILITIES

- NO PLACING & TYING REBAR IN CONCRETE FOUNDATION. NO FIELD WELDING.
- ONE (1) SINGLE PREFABRICATED BOLLARD UNIT, TO SET
- QUICK INSTALLATION (EXCAVATE, THEN SET BOLLARD & POUR CONCRETE).
- AVOIDS EXCAVATIONS BEING OPEN OVERNIGHT (SET & POUR BOLLARD ARRAY IN 1 DAY).
- UNRESTRICTED BOLLARD SPACING (ONE BOLLARD STOPS VEHICLE IMPACT).

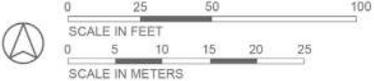
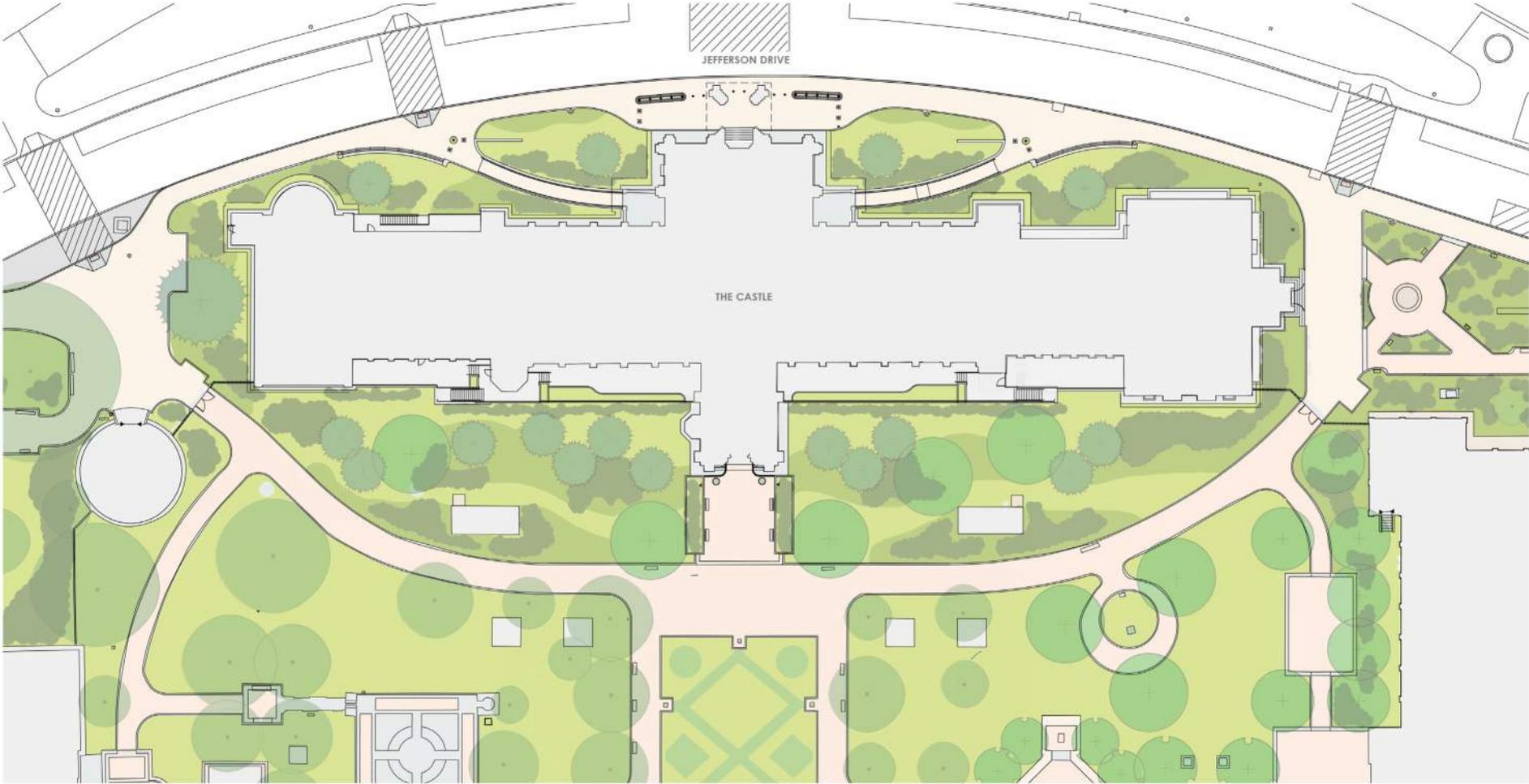
BOLLARDS



LANDSCAPE

SMITHSONIAN INSTITUTION BUILDING (SIB)

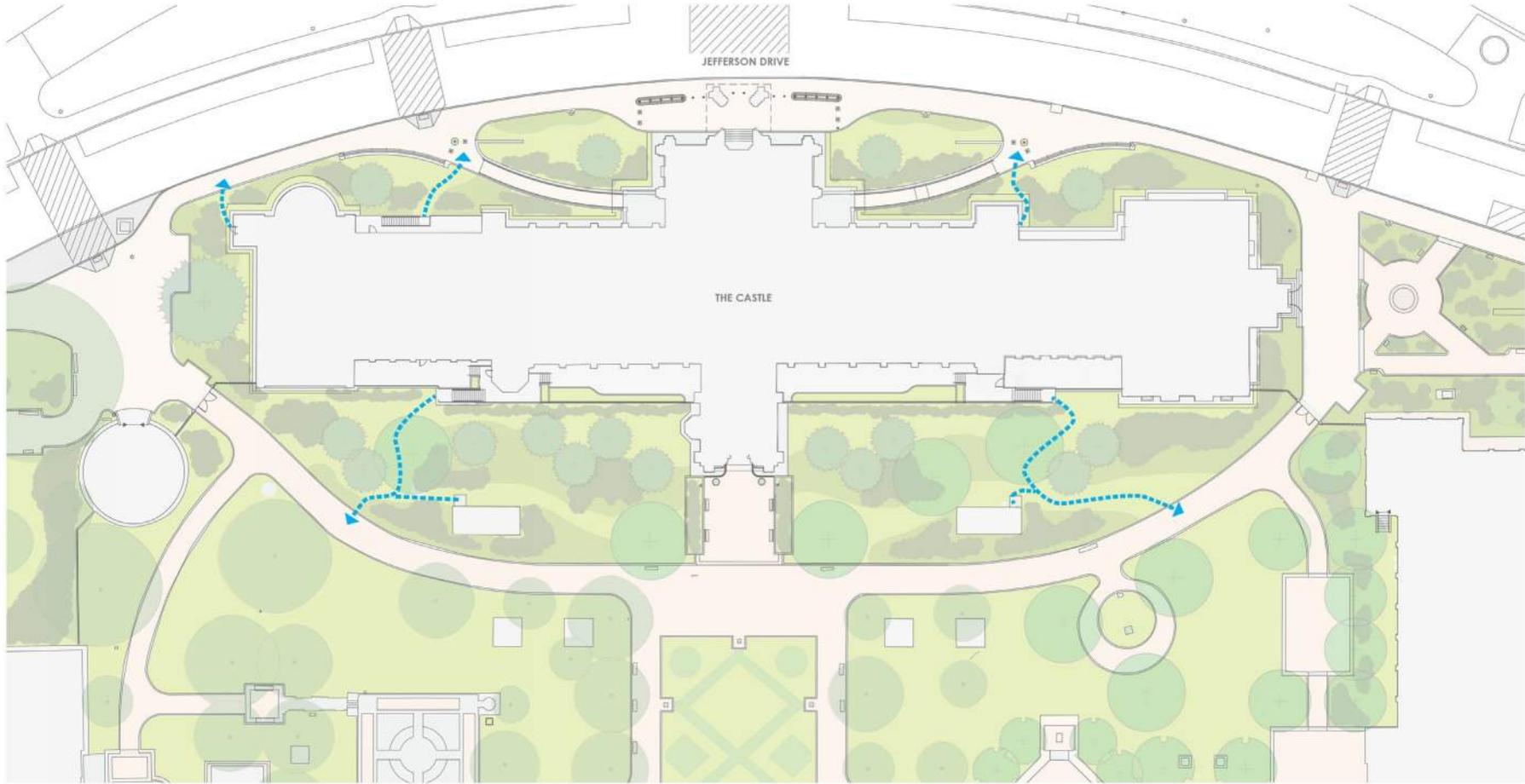
LANDSCAPE PLAN



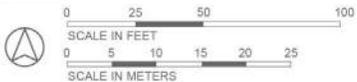
SMITHSONIAN INSTITUTION BUILDING (SIB)

LANDSCAPE

EGRESS ROUTE THROUGH LANDSCAPE FROM AREAWAYS



EMERGENCY
EGRESS ROUTE



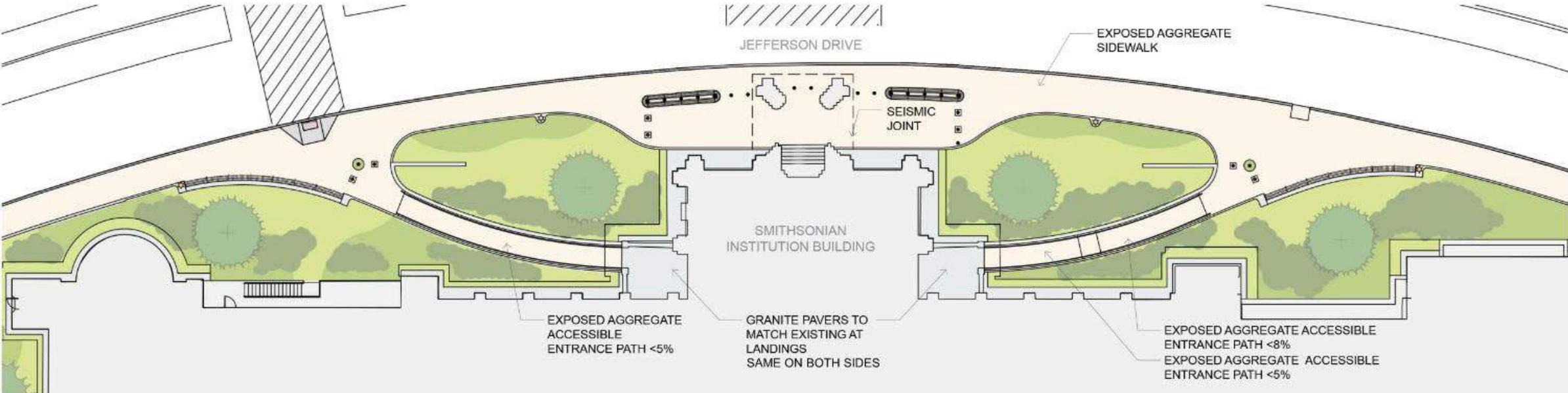
HARDSCAPE

SMITHSONIAN INSTITUTION BUILDING (SIB)

HARDSCAPE

PAVING AT RAMPS

- Exposed aggregate concrete on ramps leading to landings
- Exposed aggregate concrete in keeping with the sidewalks
- Stone proposed for landings, material alternatives in development

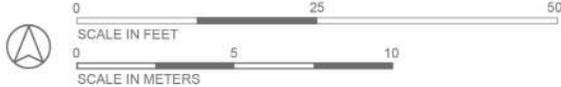
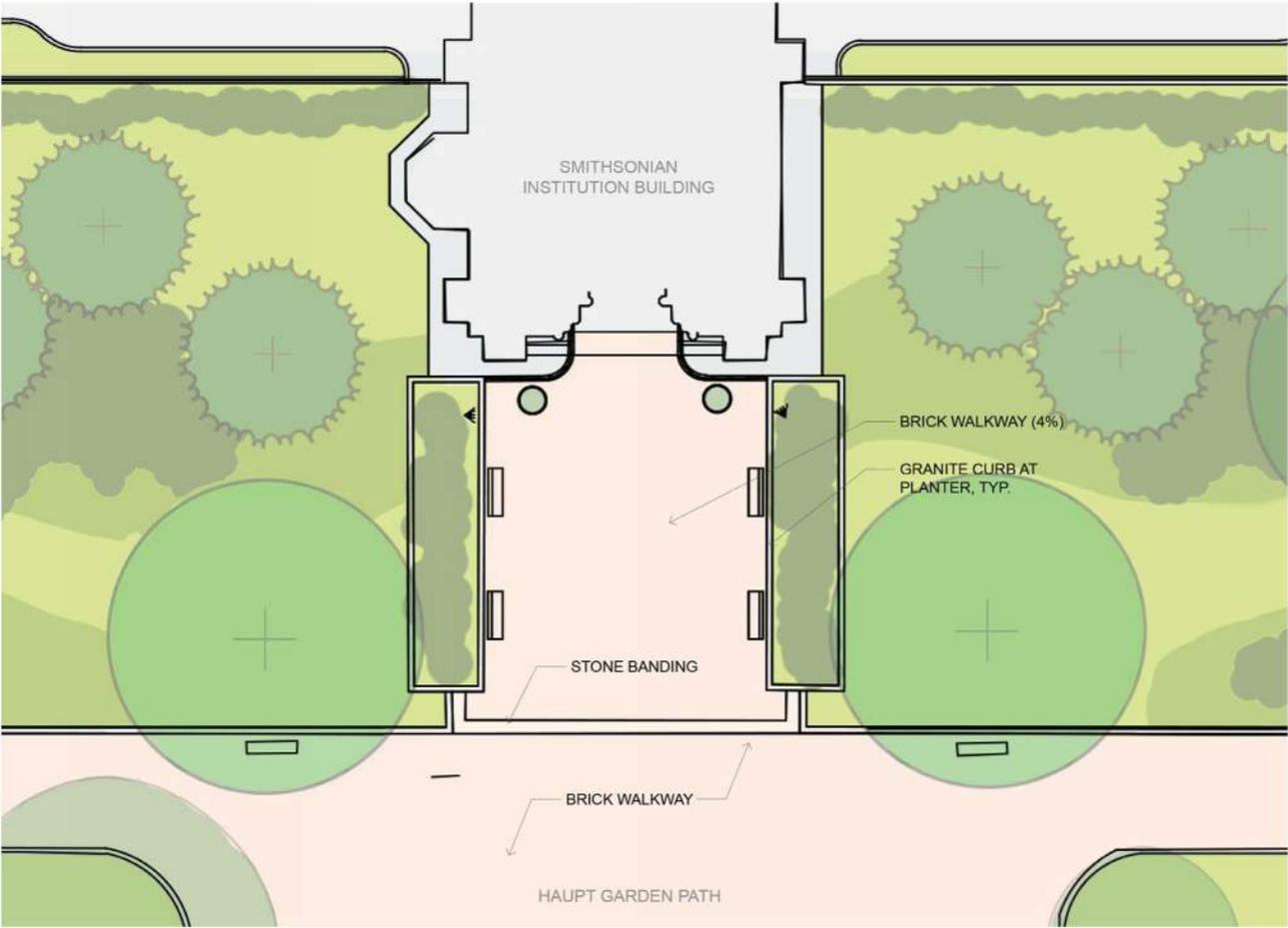


SMITHSONIAN INSTITUTION BUILDING (SIB)

HARDSCAPE

PAVING AT SOUTH ENTRANCE

- Brick pavers and stone to match existing Haupt Garden materials
- Brick pavers may be salvaged



PROJECT SCHEDULE

RoHC Revitalize Castle - Project Schedule

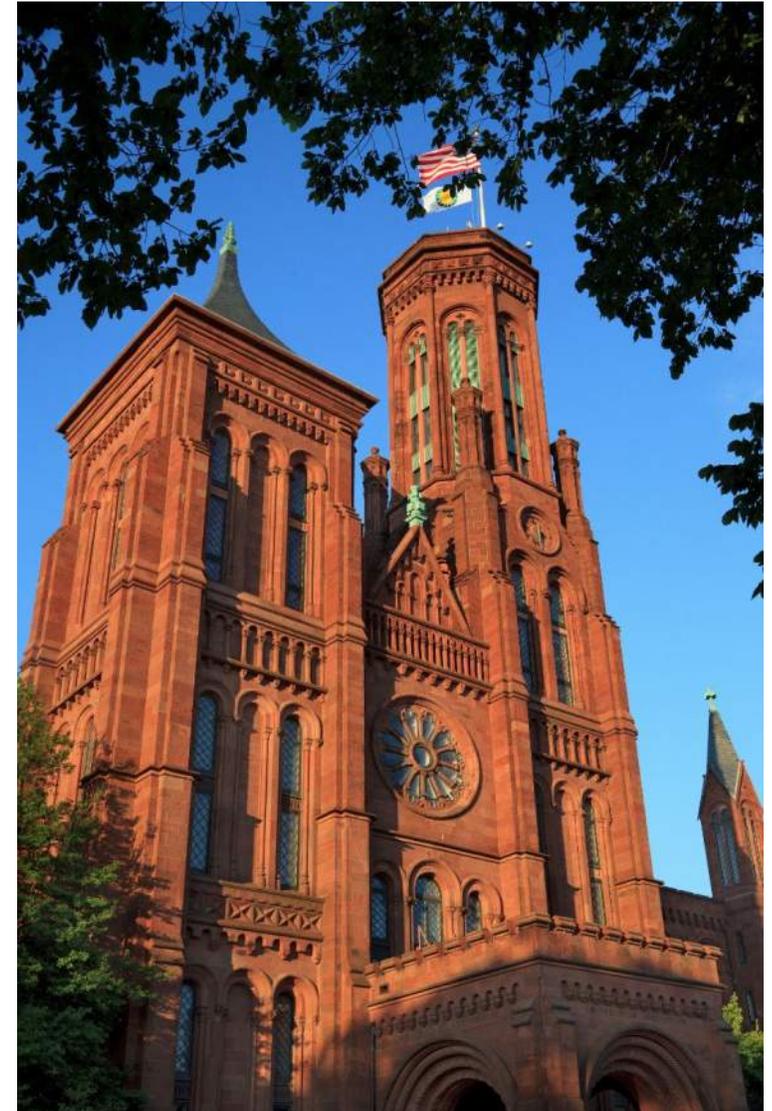
Milestone	Date
Castle Closes – Staff and Collections Moves Completed	February 2023
Telecommunications Hub Relocation Construction Completed	February 2023
Castle Construction Start	March 2023
Portions of Castle Reopen for 2026 Activities	Spring 2026
Castle Façade and Public Access Area Construction Resumes	Fall 2026



RoHC Revitalize Castle – Upcoming Section 106 Consultation Meetings

Milestone	Date	Meeting Content *
Consulting Parties Meeting #7	October 26, 2022	<ul style="list-style-type: none">• Updated Assessment of Effects• South Tower Elevator
Consulting Parties Meeting #8	November 2022 <ul style="list-style-type: none">• Meeting cycle falls on November 23rd• Put in chat your preference to schedule the meeting for the 16th or the 30th	<ul style="list-style-type: none">• Updated Assessment of Effects• TBD

* Subject to Change



Section 106 Consultation – Inclusion of Interiors

- SI, National Capital Planning Commission, and Advisory Council on Historic Preservation have concluded discussions on the inclusion of the review of interior work in Section 106 consultation on the RoHC Revitalize Castle.
- The legal concept is whether the interior and exterior components have “independent utility” from one another. In other words, do the interior and exterior components have separate and distinct purposes / functionality or do they only work together?
- NCPC and the Advisory Council concurred on a memorandum on the extent of NCPC’s limited interior Section 106 obligation.
- This memorandum will be available on the RoHC project webpage after this meeting:
<https://www.sifacilities.si.edu/historic-core>

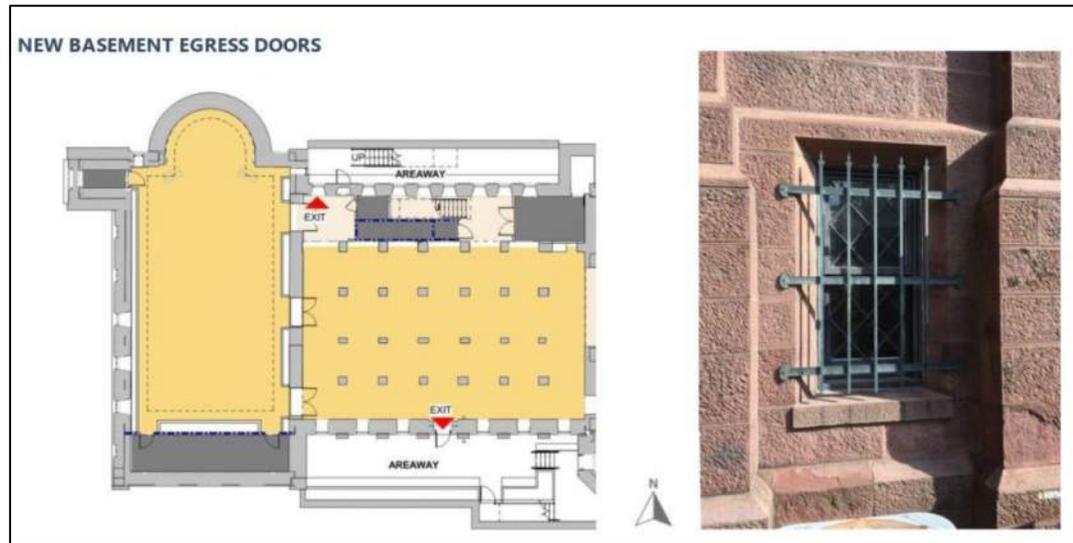
- SI and NCPC agree that the following exterior actions have an associated interior action that will be included in the Section 106 consultation process to fulfill our collective Section 106 obligations.
 - Basement level egress doors
 - Blast windows
- Additional actions may be included as consultation continues during design development.



Section 106 Consultation – Inclusion of Interiors

Basement Level Egress Doors

- Addition of new, below grade space necessitates the addition of new exterior doors for egress purposes.
- Exterior egress doors are required and connect to interior changes with the associated egress path.
- Exterior egress doors would not be functional (would not have “independent utility”) without the connected interior changes.

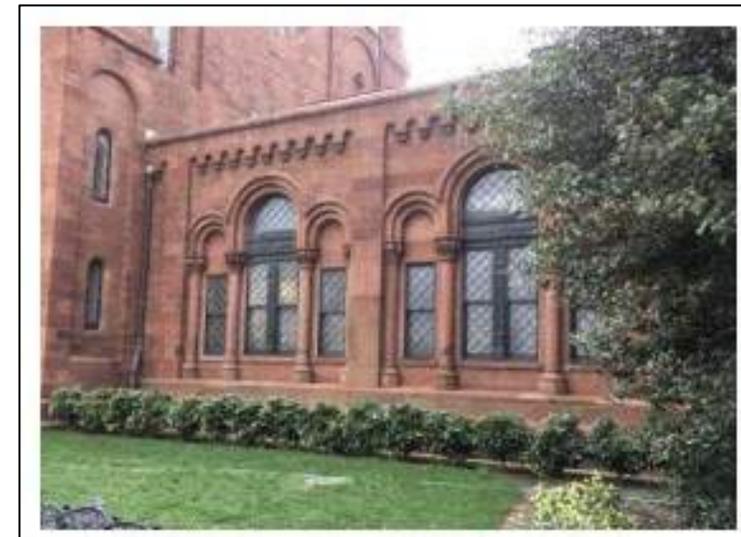


Plan of egress doors at basement.

Existing window in south areaway.

Blast Windows

- Blast resistant windows require temporary displacement of historic finishes on the interior of the Castle, adjacent to the masonry openings.
- This is required to imbed structural supports to adequately brace the blast resistant windows.
- Alterations to historic finishes around the masonry openings have no independent utility or rational need without the blast windows.



Existing north elevation of West Range.

RoHC Revitalize Castle – Next Steps

Comments are welcome in writing anytime

Please submit comments to: BondC@si.edu

Please visit the project webpage:
<https://www.sifacilities.si.edu/historic-core>

Contact Carly with questions or any trouble
with the recurring Zoom Webinar

Upcoming Additional Reviews

NCPC Revised	October 6, 2022
Preliminary Review	



Questions or Comments

MODERATOR

Carly Bond, Historic Preservation Specialist, Smithsonian Facilities

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