Hirshhorn Museum and Sculpture Garden

Section 106 Consulting Parties Meeting #1
April 10, 2019

Smithsonian

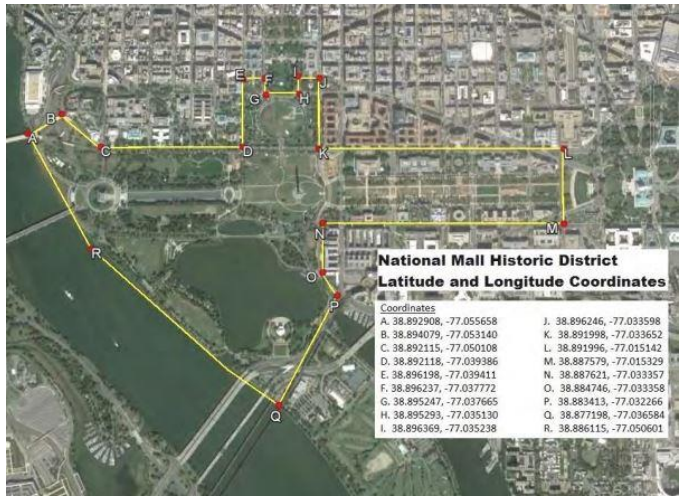
HIRSHHORN MUSEUM

Meeting Agenda

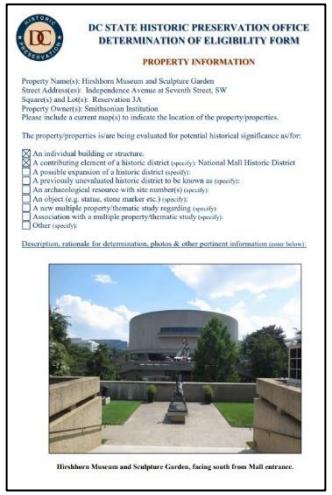
- **Welcome and Introduction**
  Jay Kaveeshwar, Deputy Director, Hirshhorn Museum and Sculpture Garden (HMSG)
- **Building Envelope Repair**
  Carly Bond, Historic Preservation Specialist, Smithsonian Facilities
- **Hirshhorn Museum and Sculpture Garden Architectural History**
  Carly Bond, Historic Preservation Specialist, Smithsonian Facilities
- **Sculpture Garden Goals and Programming**
  Melissa Chiu, Director, HMSG
- **Sculpture Garden Revitalization**
  Al Masino, Director of Exhibits and Special Projects, HMSG
  Carly Bond, Historic Preservation Specialist, Smithsonian Facilities
  Faye Harwell, Director and Landscape Architect, Rhodeside & Harwell
- **Next Steps**
  Carly Bond, Historic Preservation Specialist, Smithsonian Facilities

Section 106 Process Overview

Hirshhorn Museum and Sculpture Garden is a contributing resource to the National Mall Historic District and determined individually eligible for the National Register of Historic Places.



National Park Service, National Mall Historic District


DC STATE HISTORIC PRESERVATION OFFICE
DETERMINATION OF ELIGIBILITY FORM

PROPERTY INFORMATION

Property Name(s): Hirshhorn Museum and Sculpture Garden
Street Address(es): Independence Avenue at Seventh Street, SW
Square(s) and Lot(s): Reservation 3A
Property Owner(s): Smithsonian Institution
Please include a current map(s) to indicate the location of the property/properties.

The property/properties is/are being evaluated for potential historical significance as/for:

☒ An individual building or structure.
☒ A contributing element of a historic district (specify): National Mall Historic District
☐ A possible expansion of a historic district (specify):
☐ A previously unevaluated historic district to be known as (specify):
☐ An archaeological resource with site number(s) (specify):
☐ An object (e.g. statue, stone marker etc.) (specify):
☐ A new multiple property/thematic study regarding (specify):
☐ Association with a multiple property/thematic study (specify):
☐ Other (specify):

Description, rationale for determination, photos & other pertinent information (some below):

Hirshhorn Museum and Sculpture Garden, facing south from Mall entrance.

We Are Here

Building Envelope Repair

Carly Bond, Smithsonian Facilities

HIRSHHORN MUSEUM

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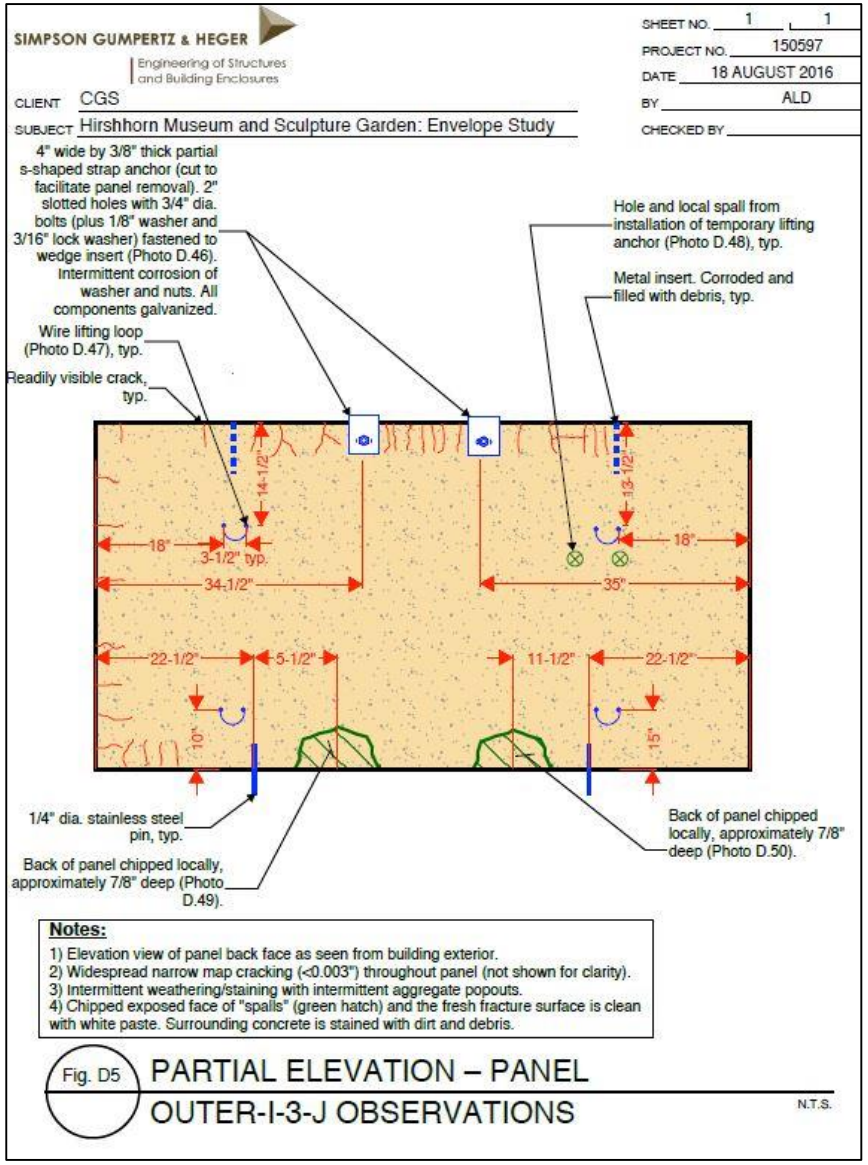
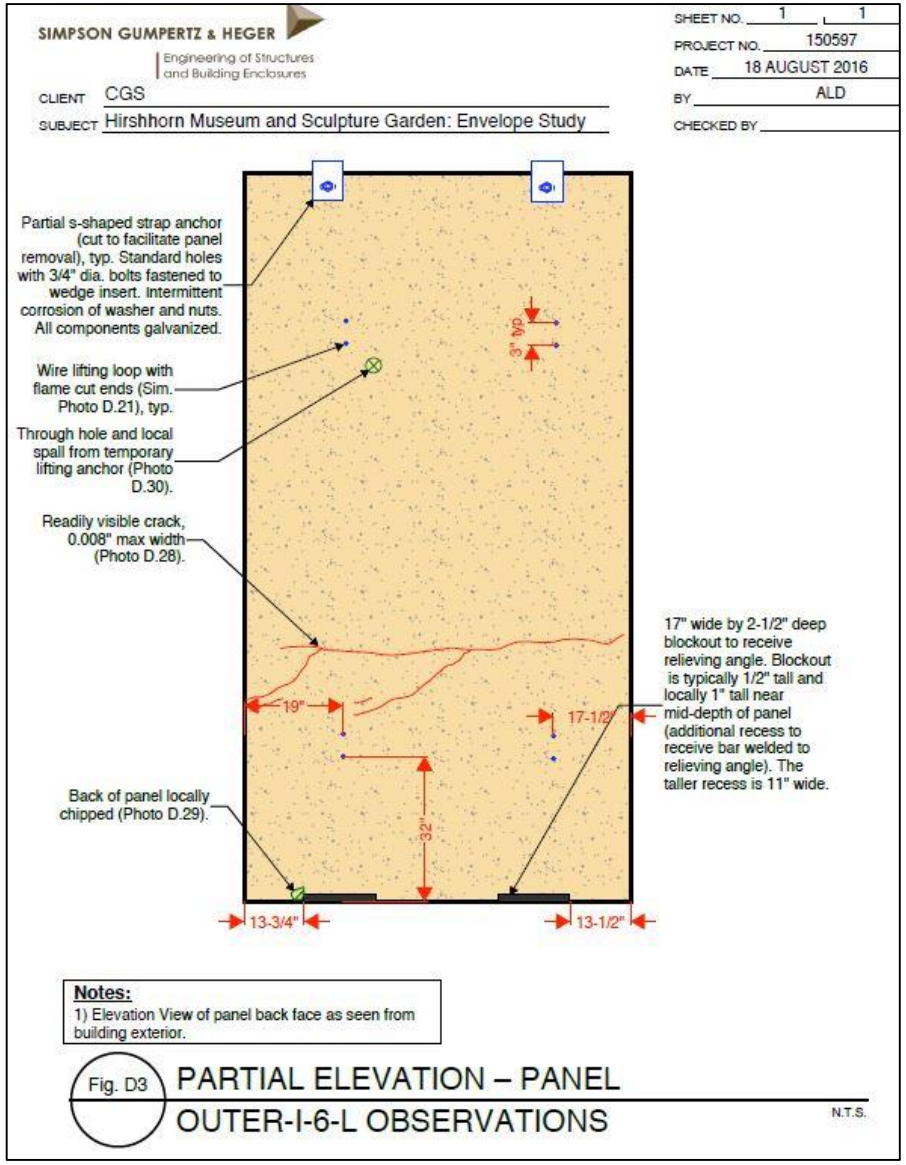
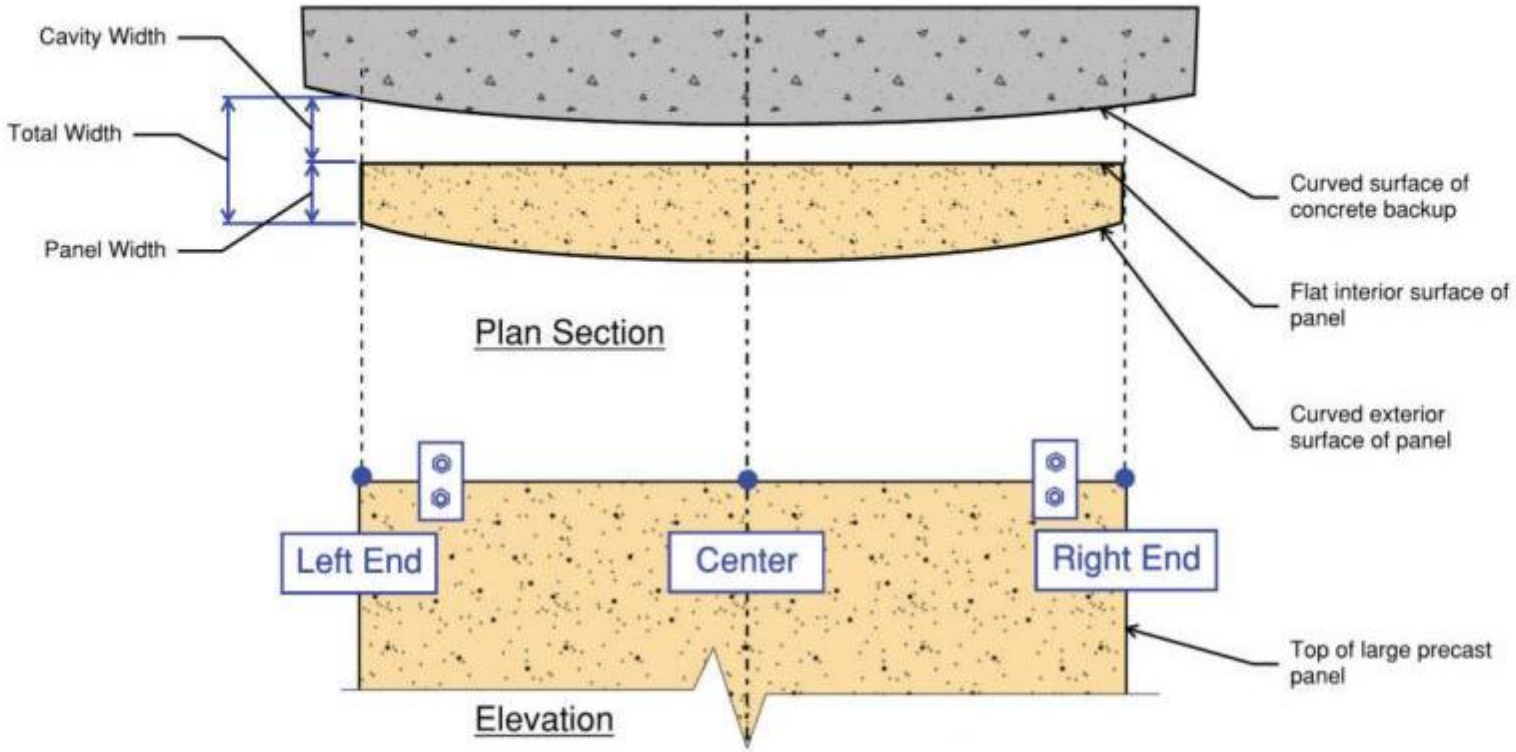
Existing Conditions

Conditions Study – 2016-2019





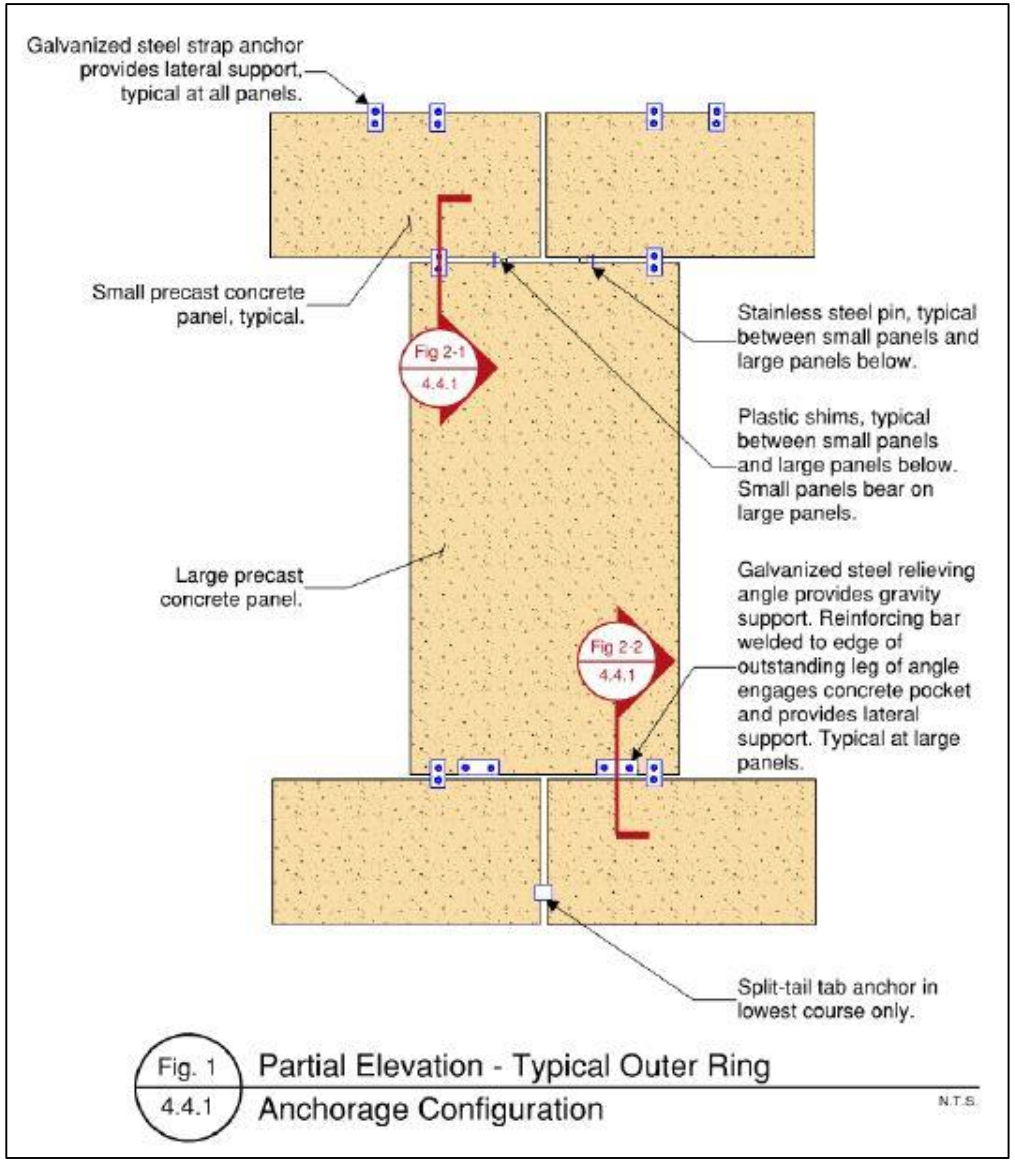
Existing Precast Panels

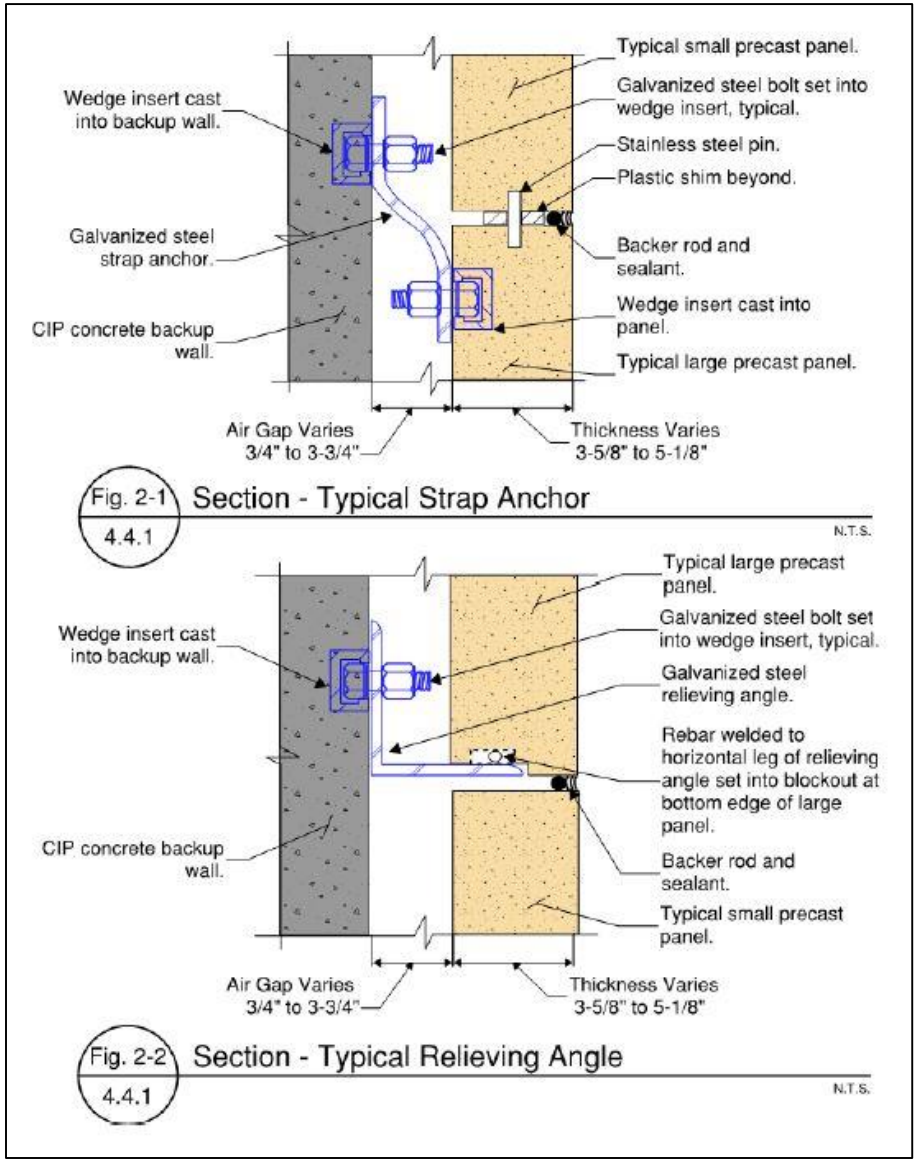


	Panel Width		Cavity Width		Total Width	
	Center	*Ends*	*Center*	*Ends*	*Center*	*Ends*
Minimum	3.5”	3.5”	1.25”	1”	5.5”	5.25”
Maximum	5”	4.75”	3.25”	3.75”	7.75”	7.75”
Average	**4.5”**	**4”**	**2”**	**2.5”**	**6.5”**	**6.5”**

Maximum reasonable insulation thickness based on measurements: 2”

Existing Precast Panel Attachments





Existing Conditions

Strap anchor. Shims filling gap, strap bent

Relieving angle. Corrosion, spalling, and uneven panel bearing

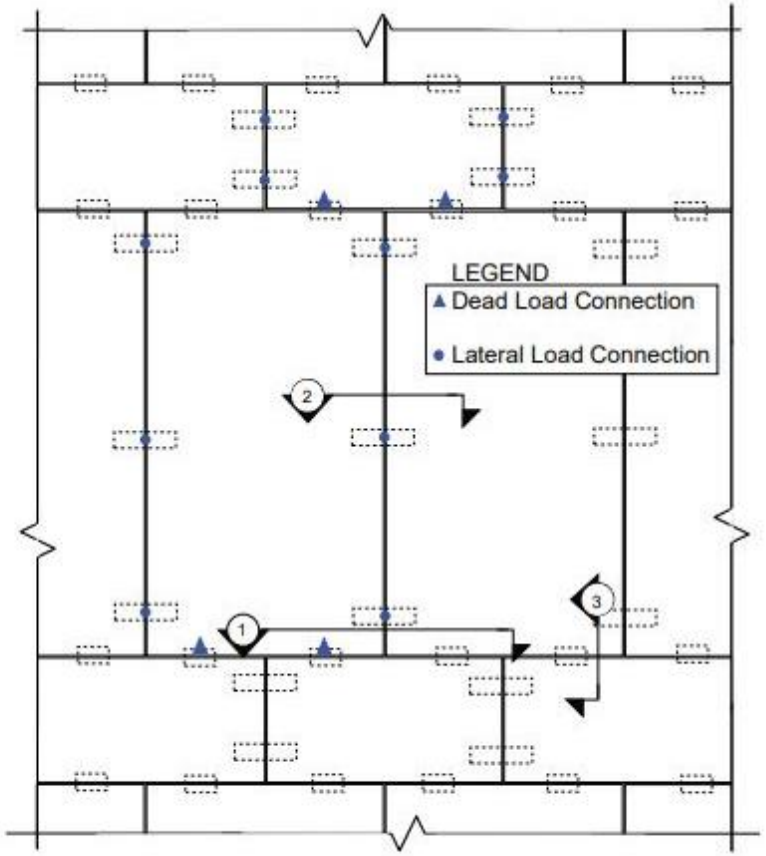
Concrete back-up wall, Water saturation

Concrete panel intentionally chipped for anchorage installation

Uneven spacing between panels

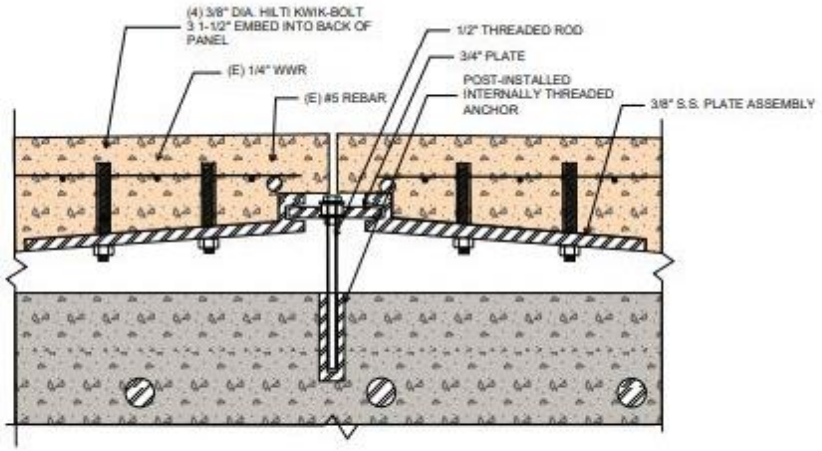
Concrete spalling adjacent to relieving angle bearing surface

Precast Panels – Reattachment

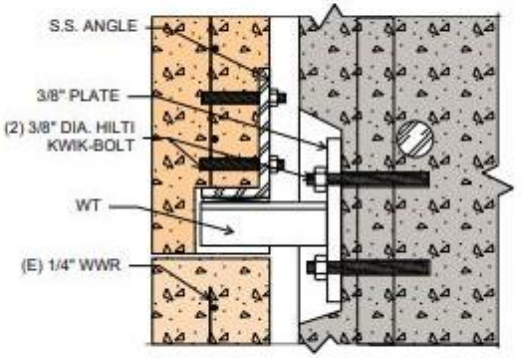


Elevation

Horizontal Section (1)



Horizontal Section (2)

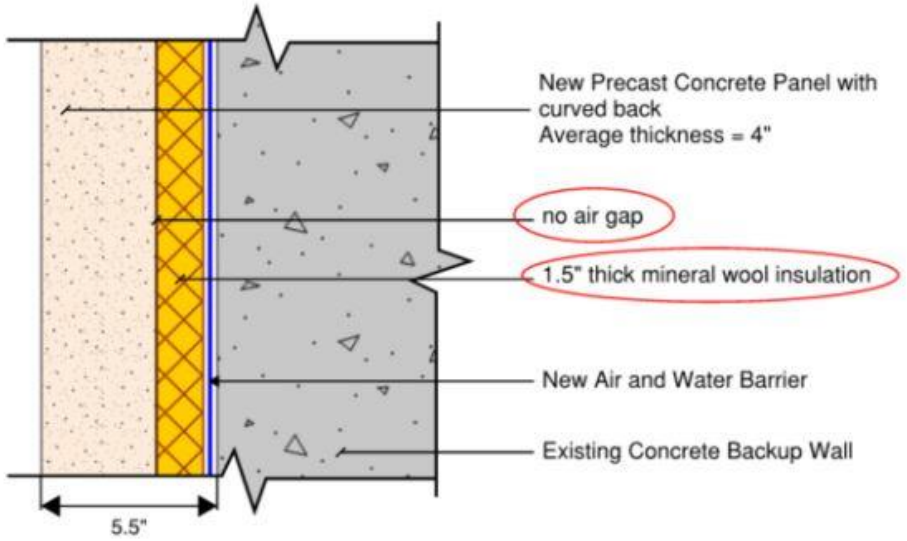


Vertical Section (3)

COMMENTS/CONCLUSIONS

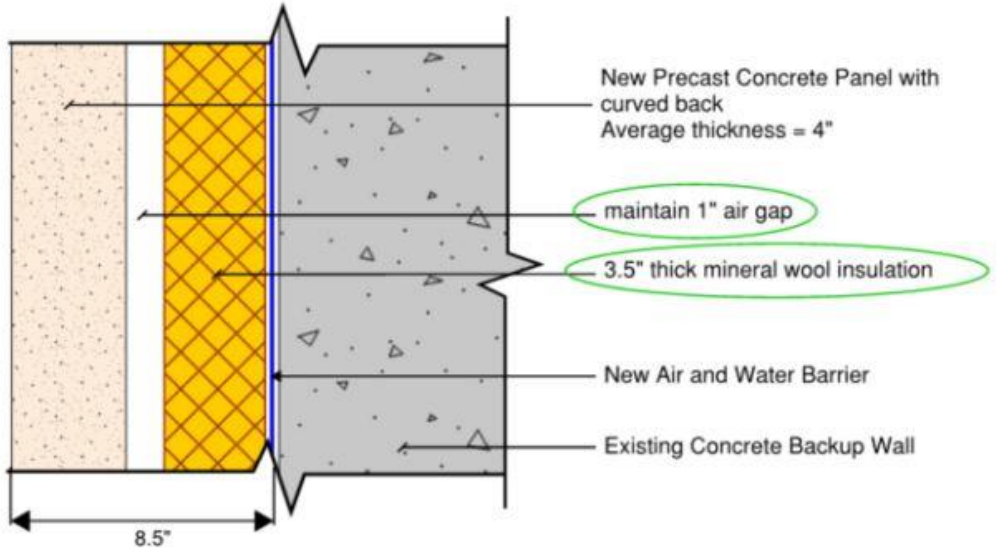
- Mid-height lateral connection shown but may not be required.
- Base connection requires plate to be recessed into existing panel.
- Base connection may require recessing into the concrete back-up wall depending on as-built conditions.
- Lateral connection may require recessing into the panel based on as-built conditions.

Replace with Traditional Precast Panels



Minimum Existing Wall Thickness

Fitting into existing condition will not meet prescriptive energy code requirements



Proposed Condition with 3" Offset

Façade will need to “grow” to meet prescriptive energy code requirements

Existing Condition

Precast Panels - Offset +3”

Existing Condition

Precast Panels - Offset +3”

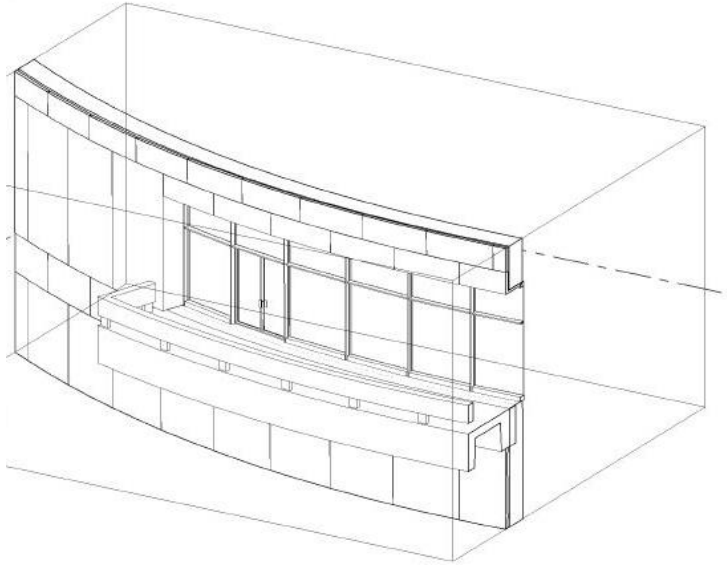
Existing Condition

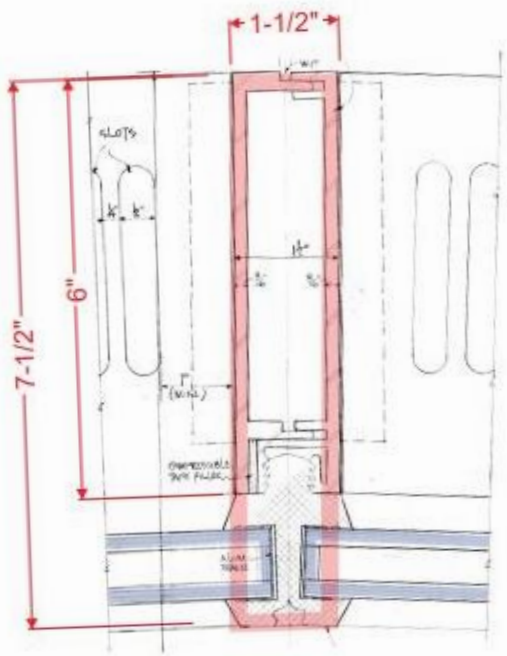
Precast Panels - Offset +3”

Granite Aggregate

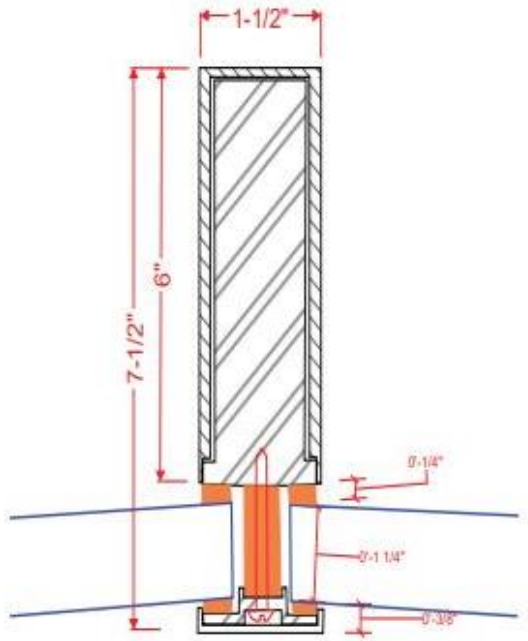
- Original Swenson Pink granite now quarried under the name “Salisbury Pink”
- Vendor supplies Salisbury Pink as blocks or slabs; separate vendor would have to be retained to crush to aggregate
- Additional granite options under consideration
- Original aggregate size varies from 1/2” to 3/8” in size

North Balcony Glazing



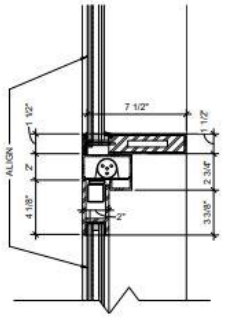


Existing Mullion Section

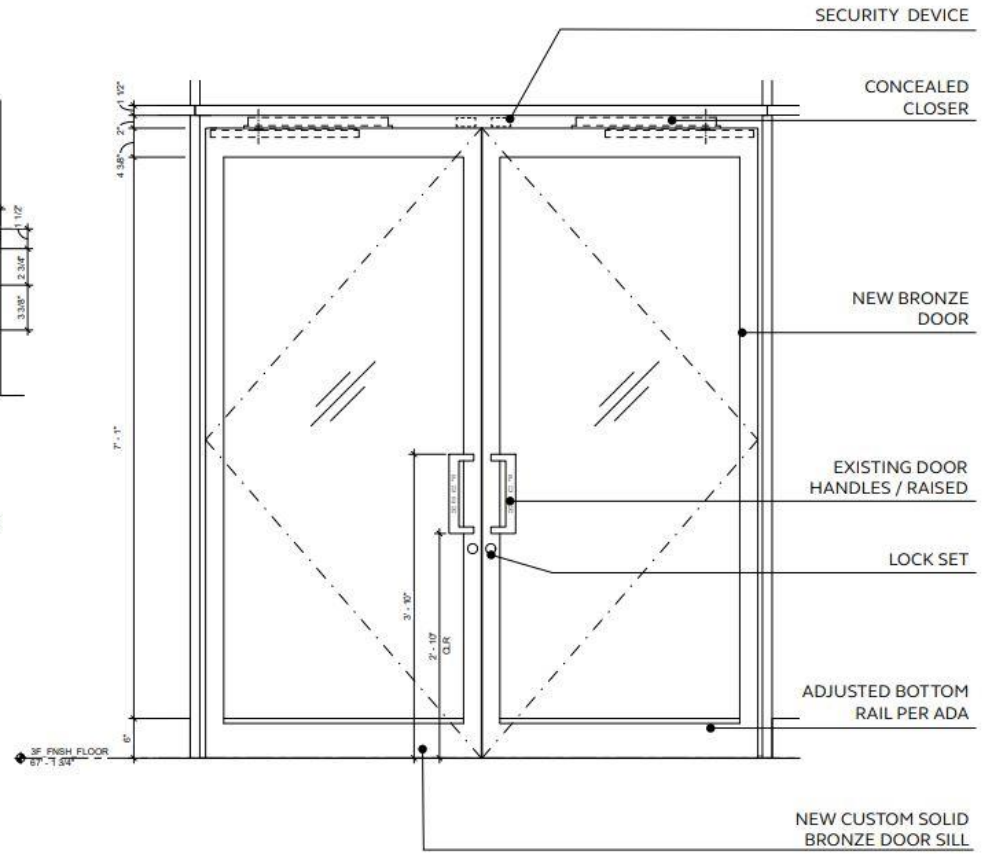


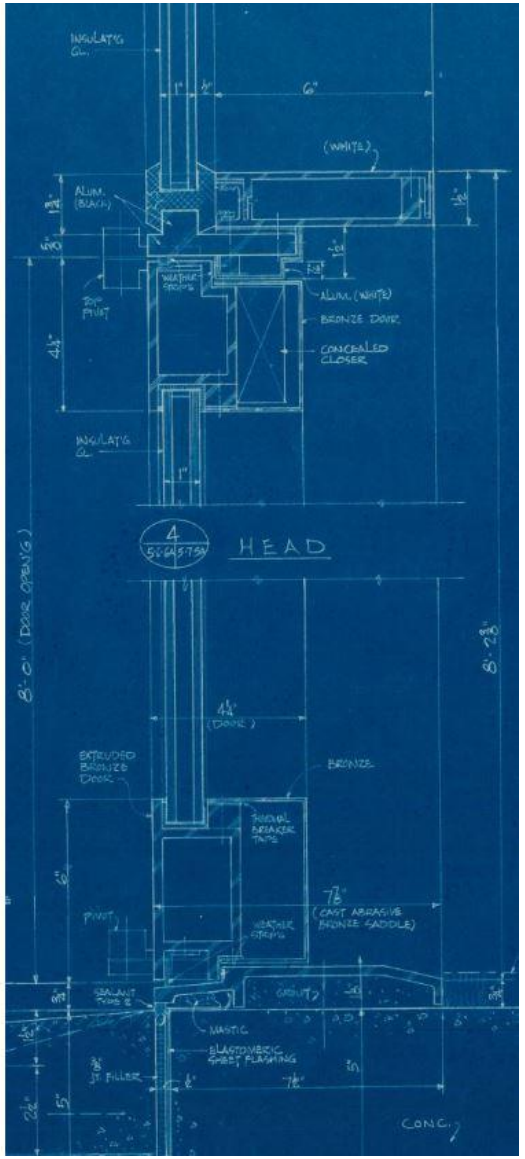
Proposed Mullion Section

Balcony Door

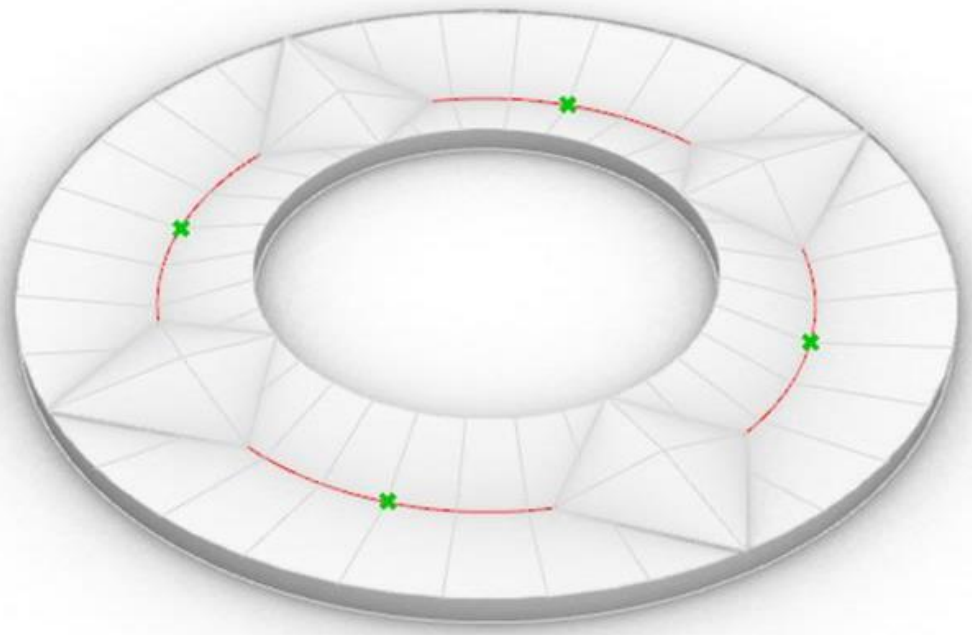


EXTERIOR RATED
CONCEALED CLOSER
(IN HEADER FRAME)

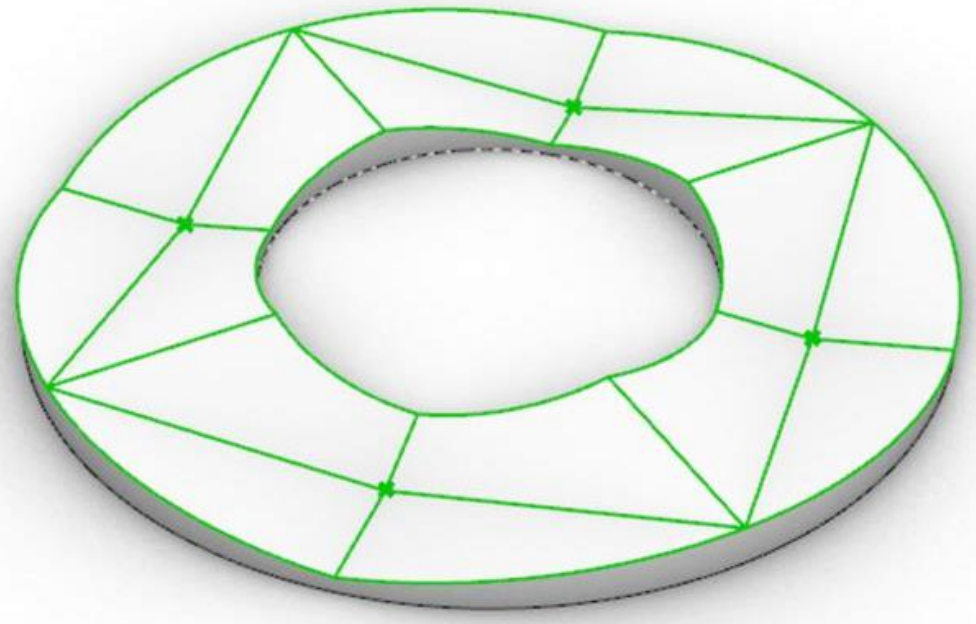




Roof Drainage

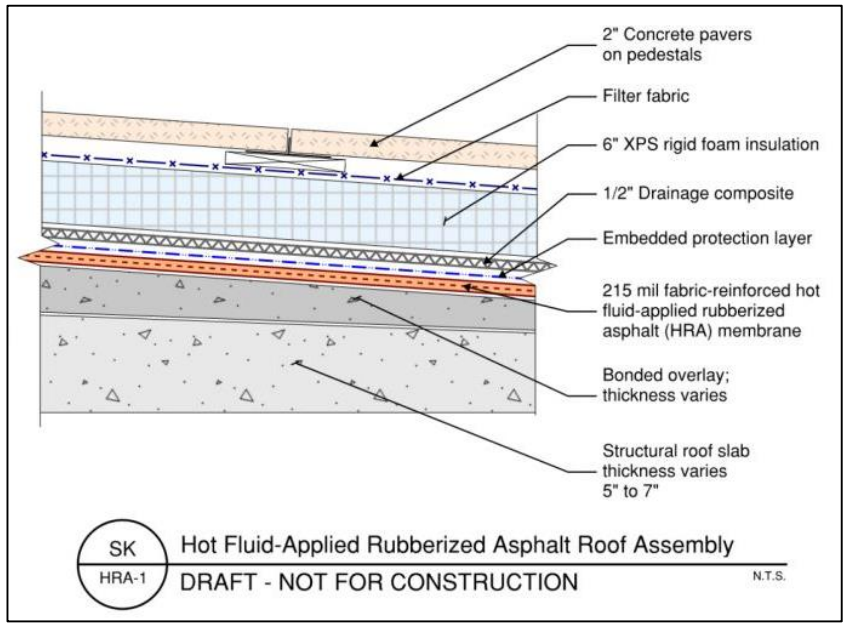


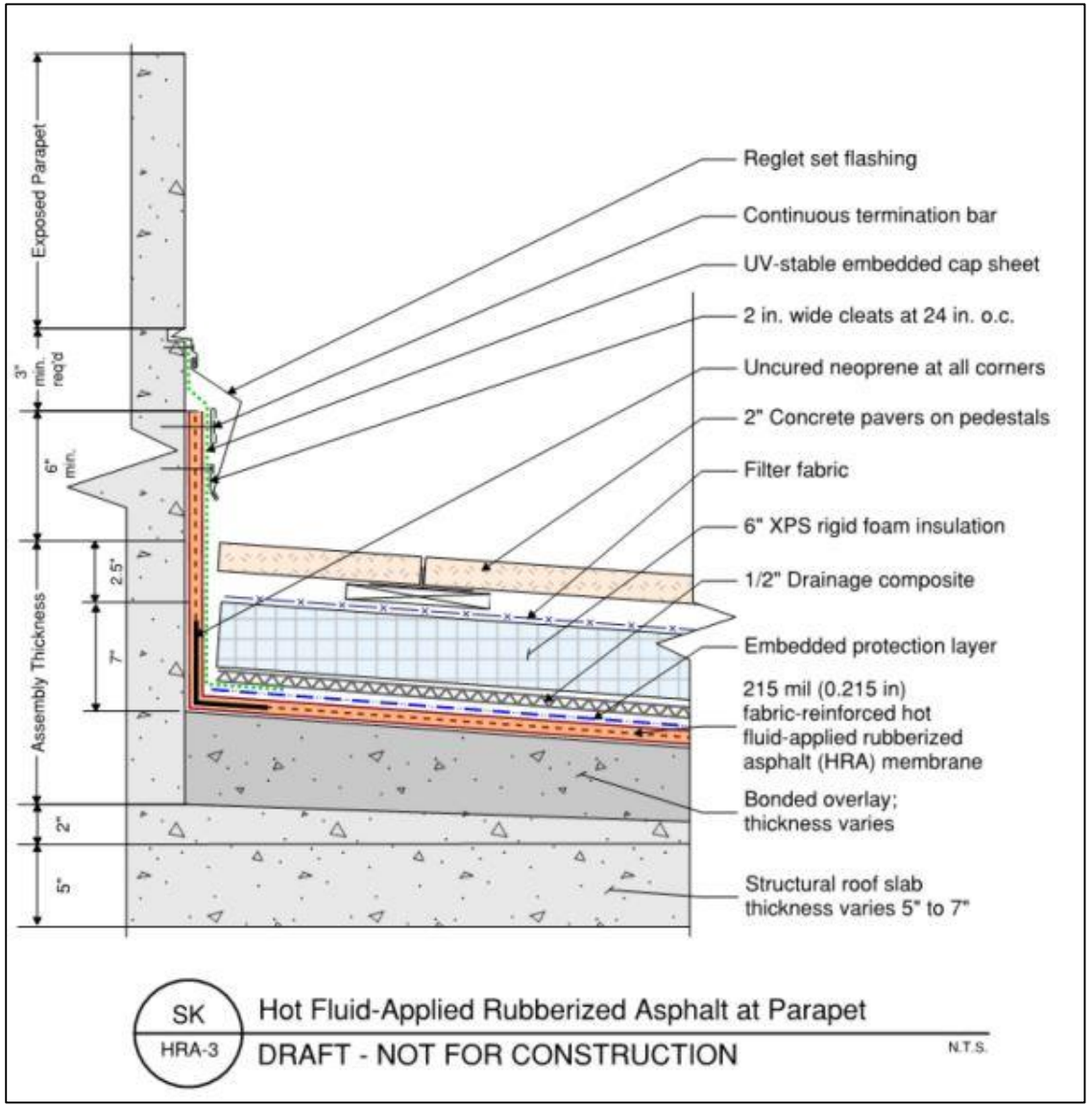
EXISTING



PROPOSED

Roof Details





Comments or Questions

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Hirshhorn Museum and Sculpture Garden Architectural History

Carly Bond, Smithsonian Facilities

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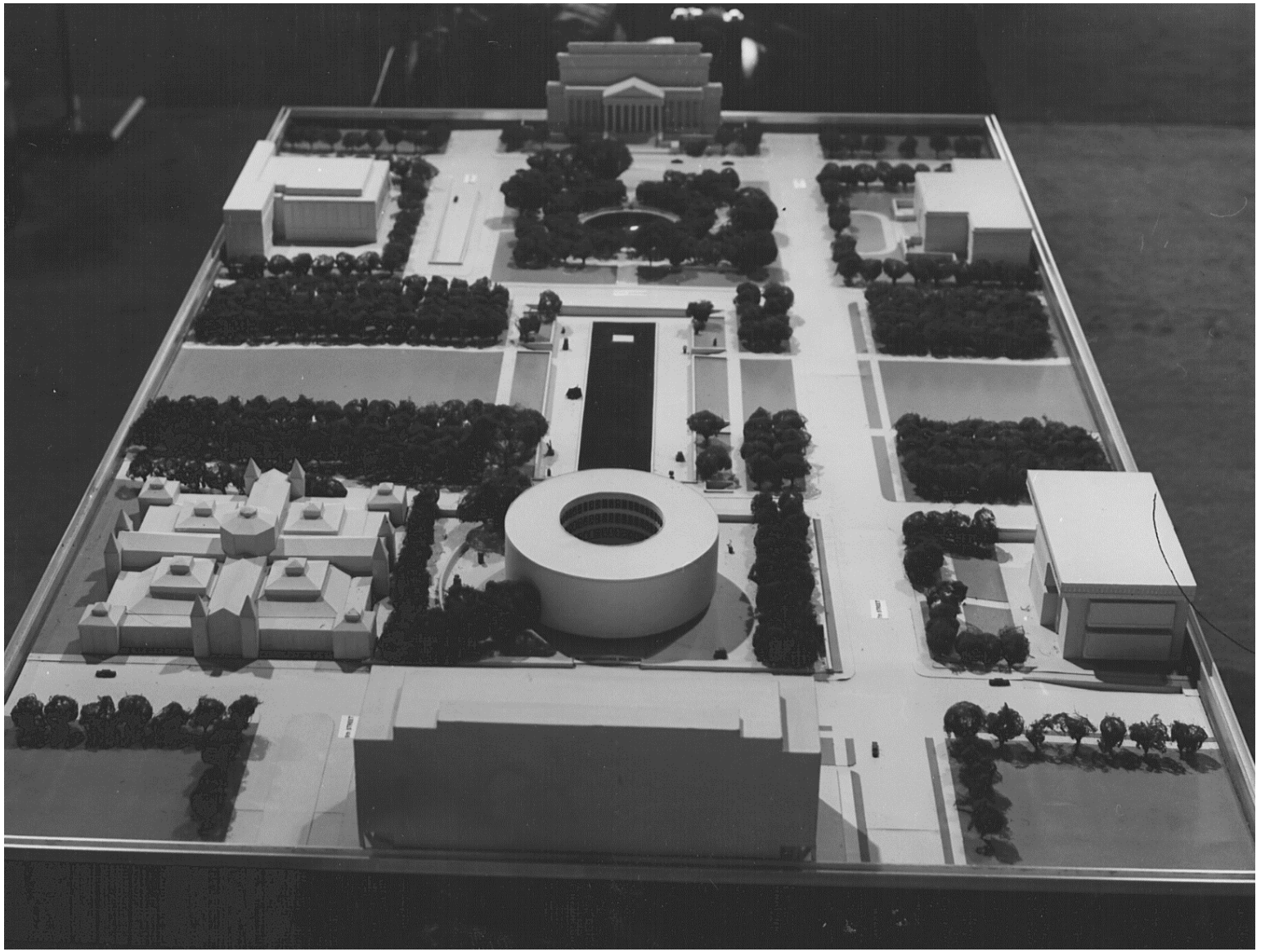
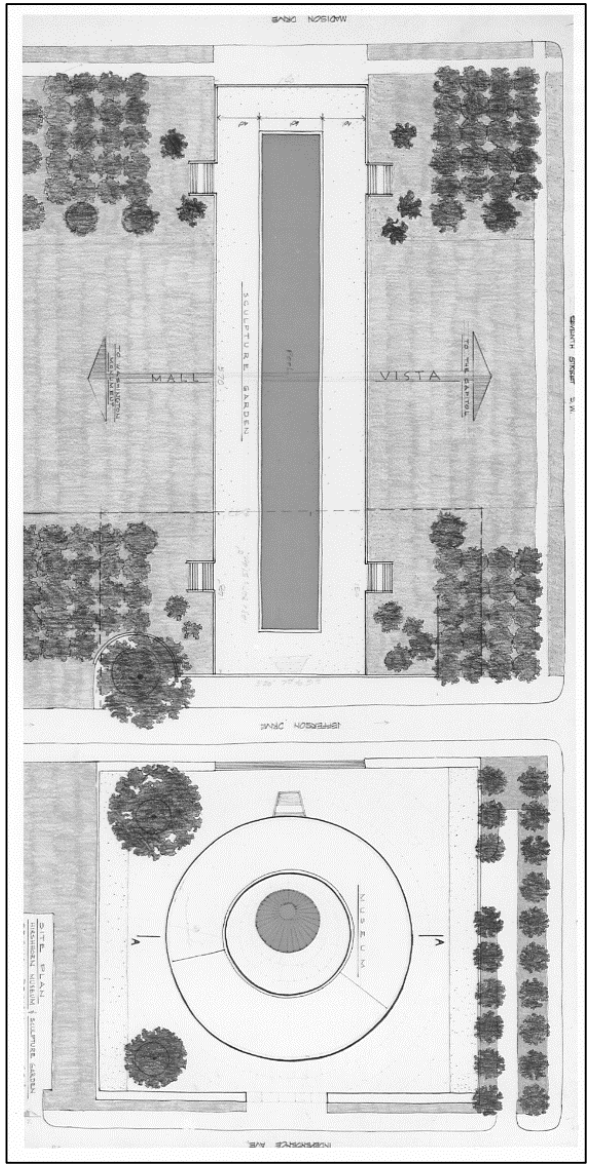
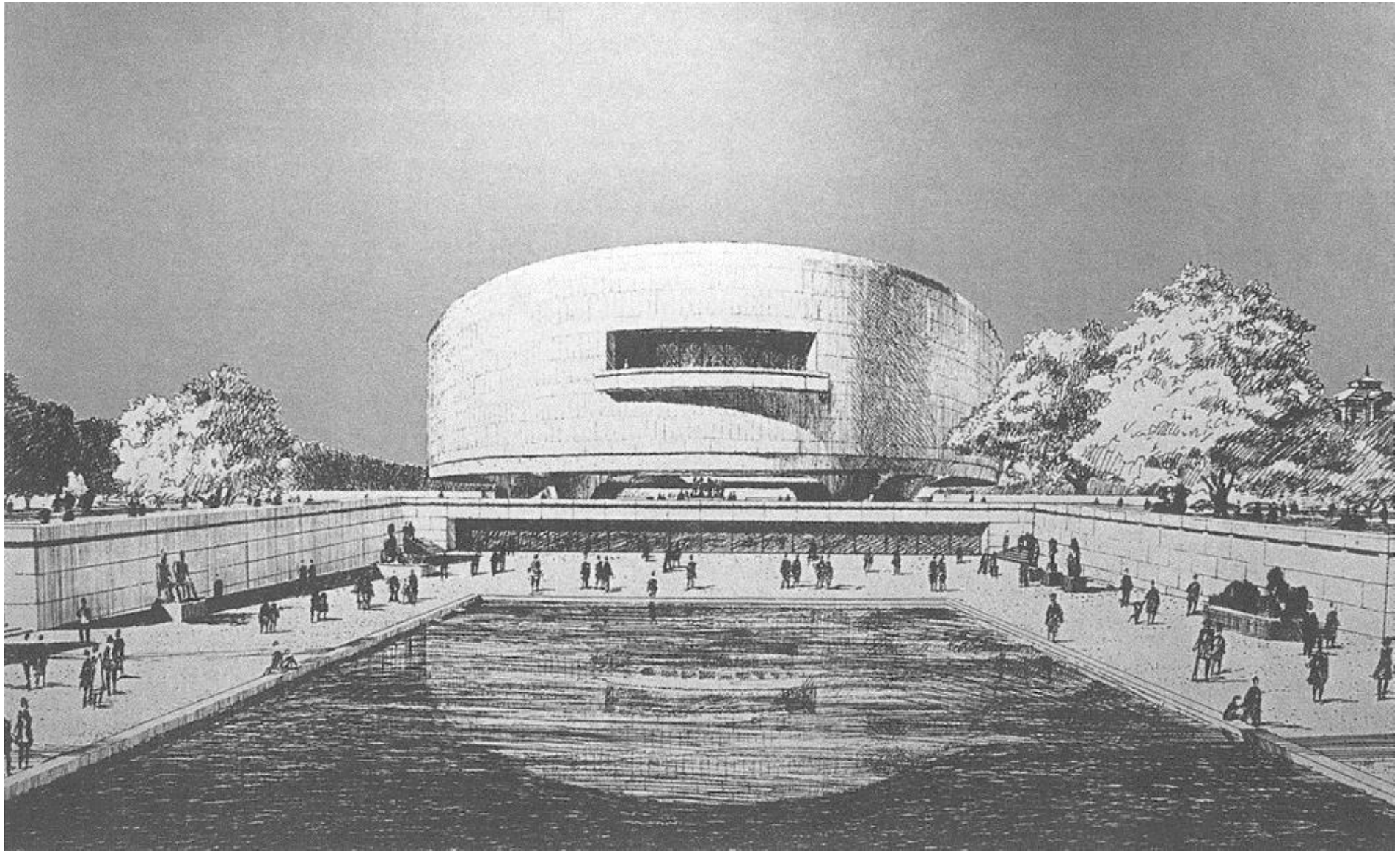
Unrealized Design Concept - Expansive Reflecting Pool





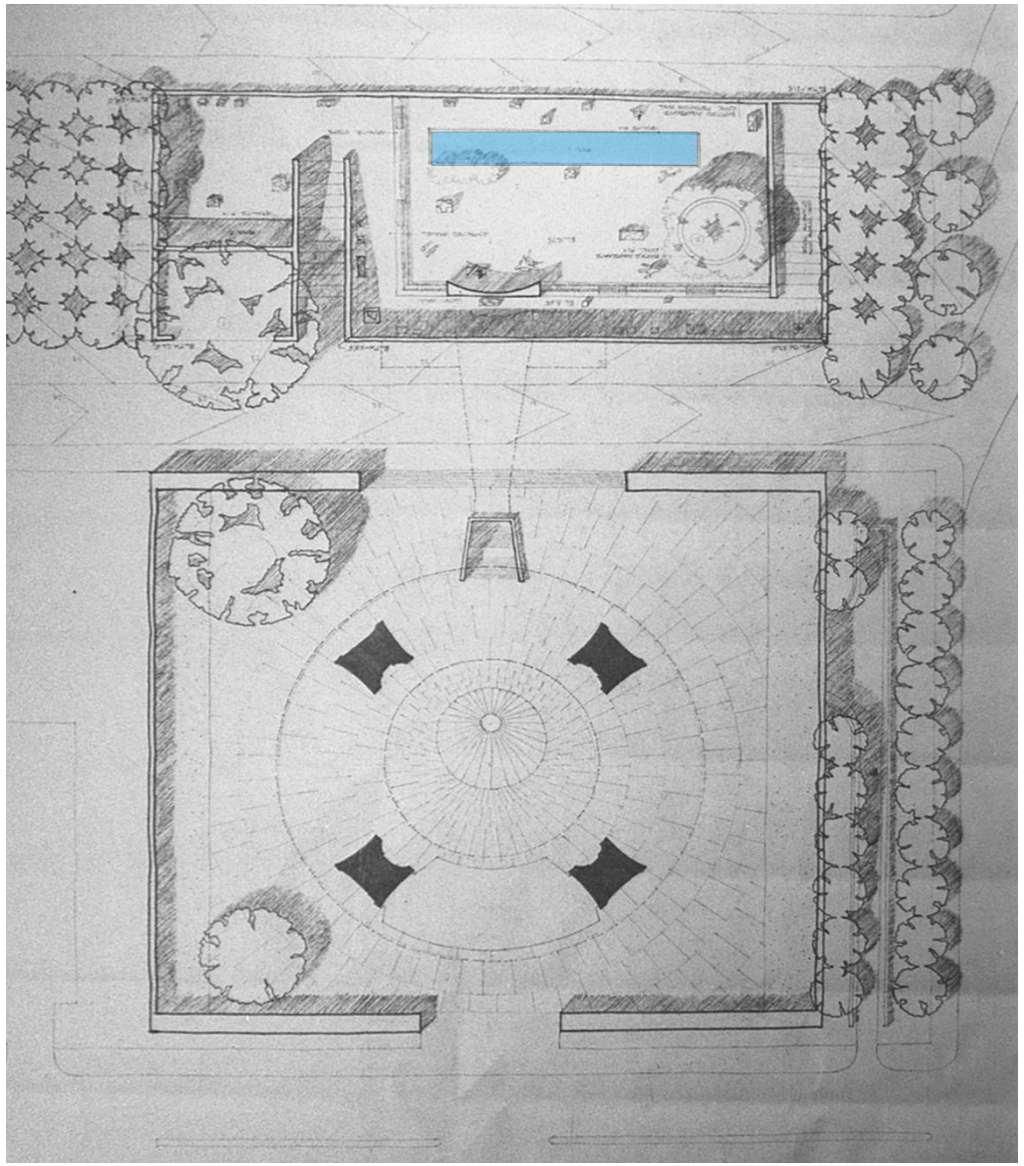
Skidmore, Owings & Merrill (SOM), 1967

Unrealized Design Concept - Expansive Reflecting Pool



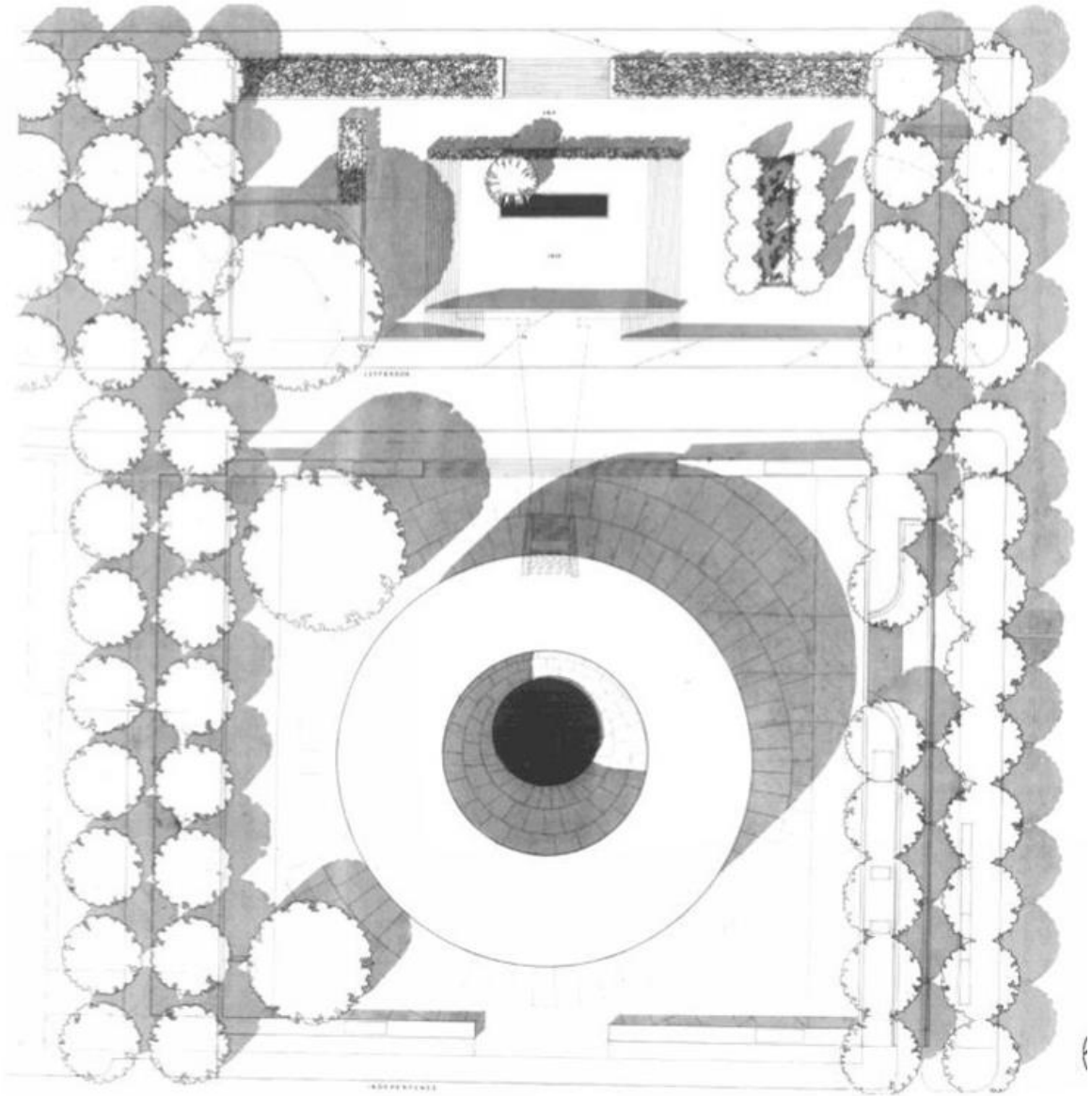
Gordon Bunshaft, Skidmore, Owings & Merrill, 1967

Unrealized Design Concept – Enlarged Pool



Skidmore, Owings & Merrill, 1969

Realized Design

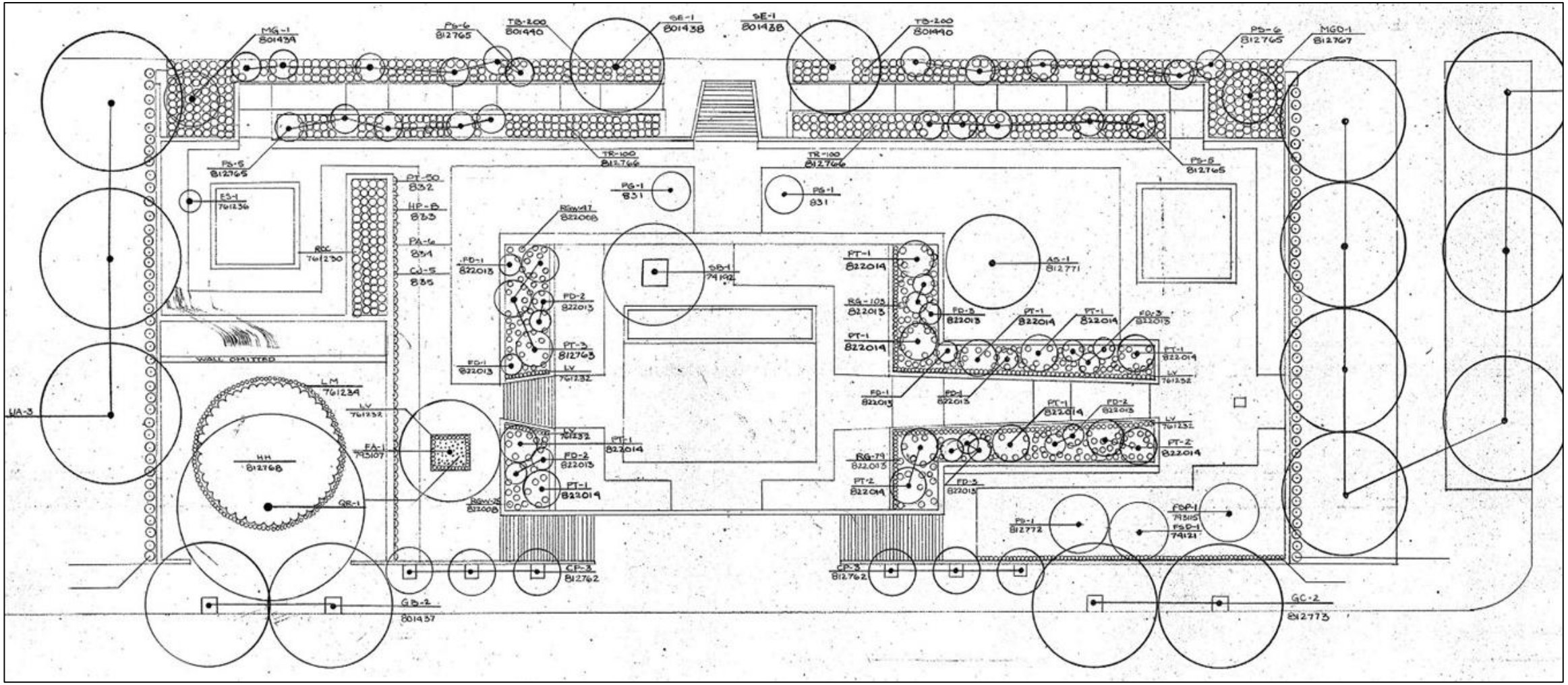


Final Approved Design, SOM, 1971

1974 Opening

As-built conditions, 1974

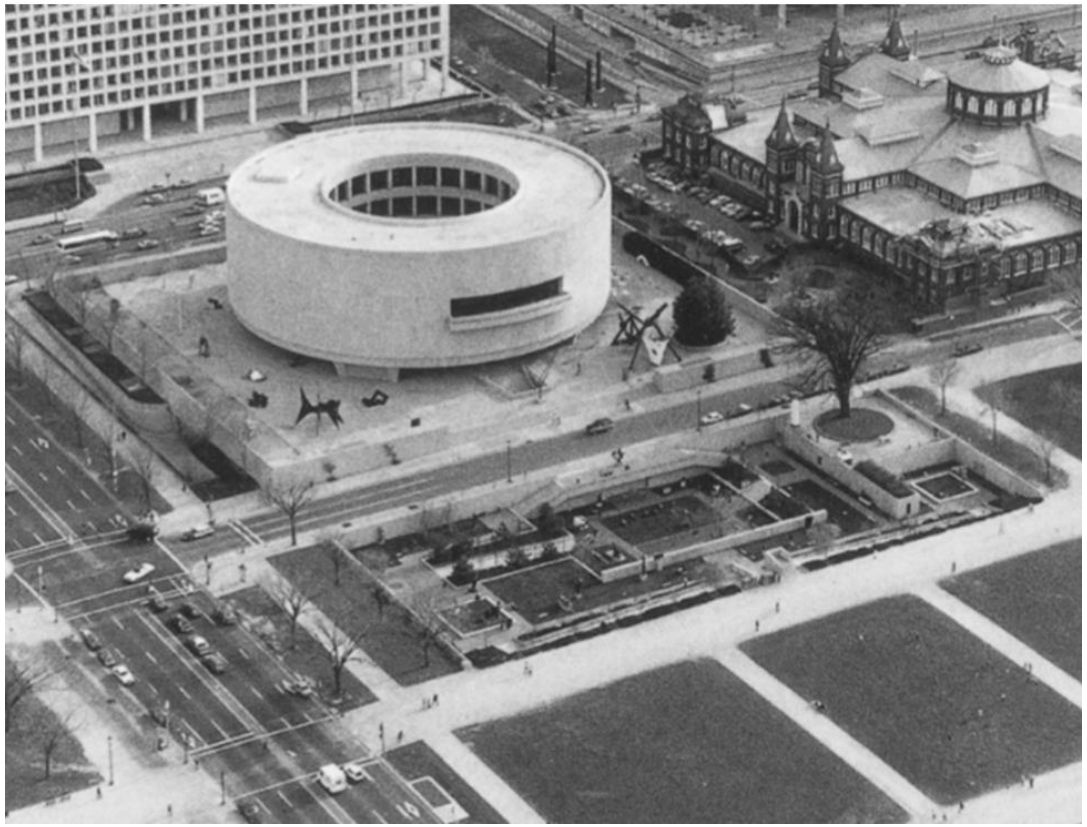
Sculpture Garden Modifications – 1977-1981



Lester Collins, 1977

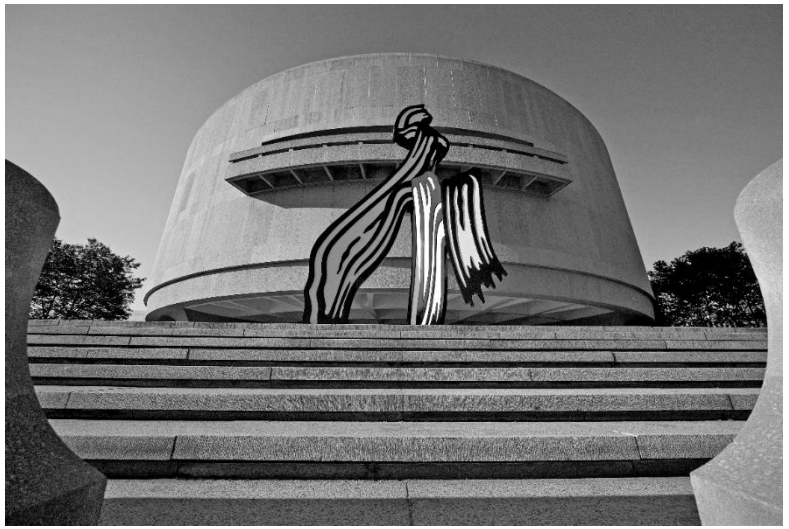
- National Register documentation proposes 1974 as the period of significance

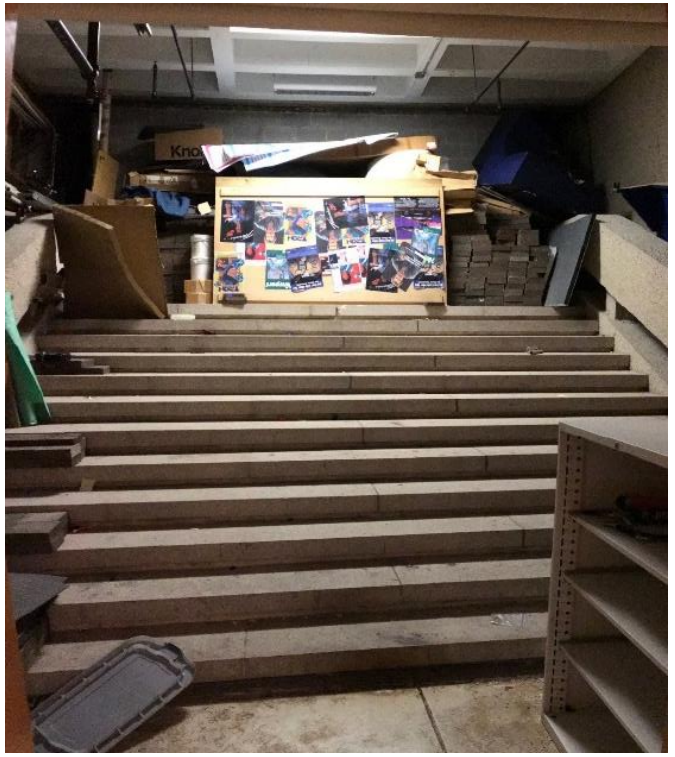
1981 Garden Modifications



As-built conditions, 1981

Tunnel Modifications





Comments or Questions

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Sculpture Garden
Project and Programming Goals

Melissa Chiu, Hirshhorn

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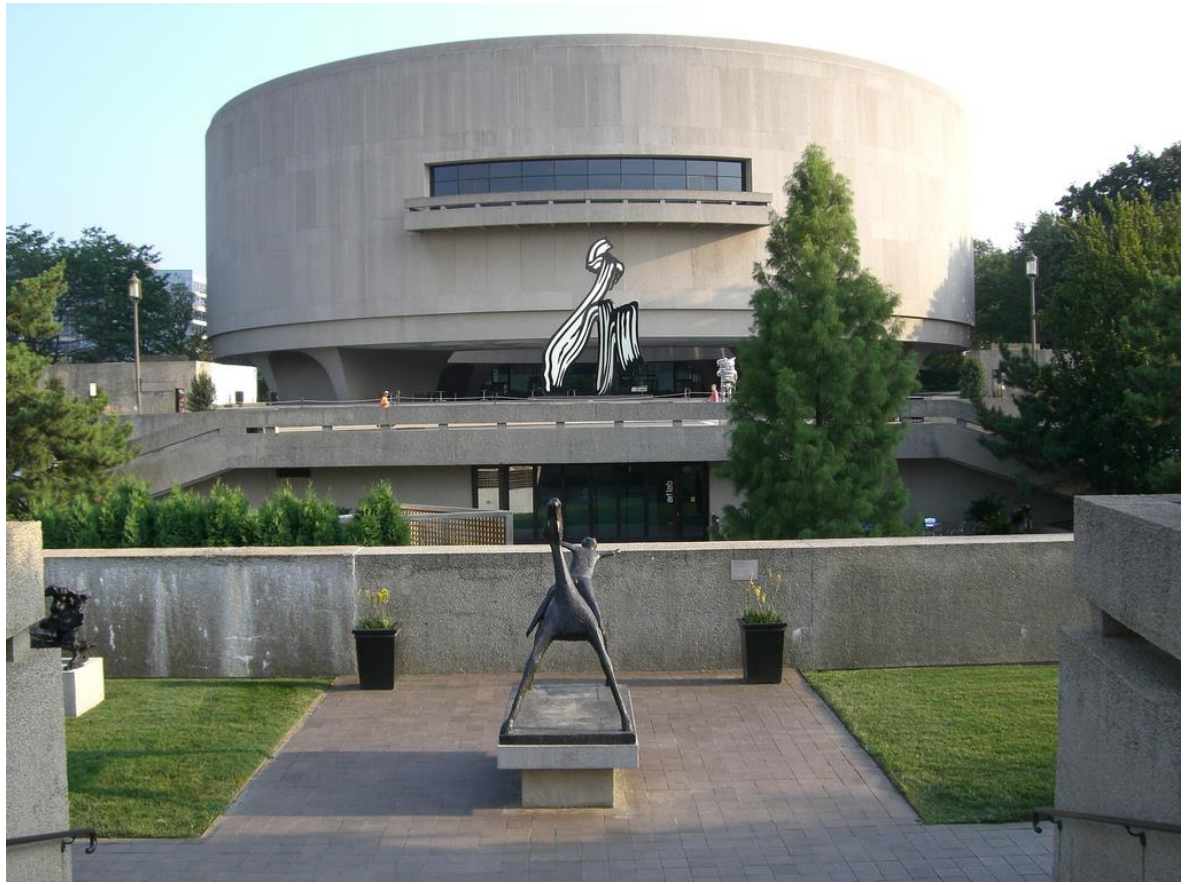
Isamu Noguchi with Nina and Gordon Bunshaft, Ryoanji, Kyoto, Japan, 1960

Hirshhorn Museum and Sculpture Garden, 1974

Tunnel Connection – Past and Present

Original Tunnel Connecting the Garden and Plaza, 1974

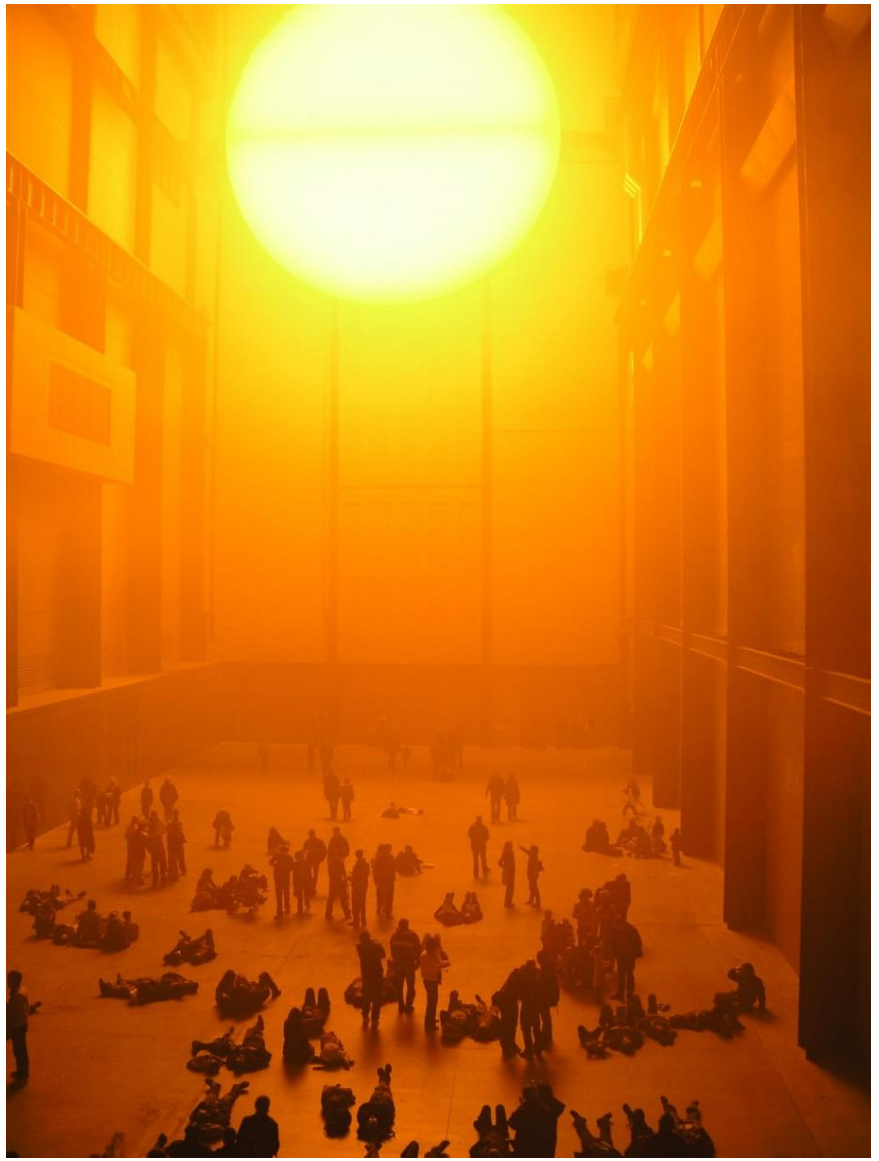


Existing Condition, 2019

Programming Inspiration

Annual Contemporary Art Exhibition at Versailles – Lee Ufan, 2014

Programming Inspiration



Turbine Hall at Tate Modern, Rachel Whiteread (2005); Olafur Eliasson (2003)

Hirshhorn Performance Art Exhibitions

Ragnar Kjartansson, *Woman in E*, Hirshhorn Museum, 2016/2017

Jen Rosenblit, *I'm Gonna Need Another One*, Does the Body Rule the Mind, Or Does the Mind Rule the Body?, Hirshhorn Museum, 2018

Hirshhorn Digital Projections

Doug Aitken, *Song 1*, Hirshhorn Museum, 2012

Hirshhorn Music Performances

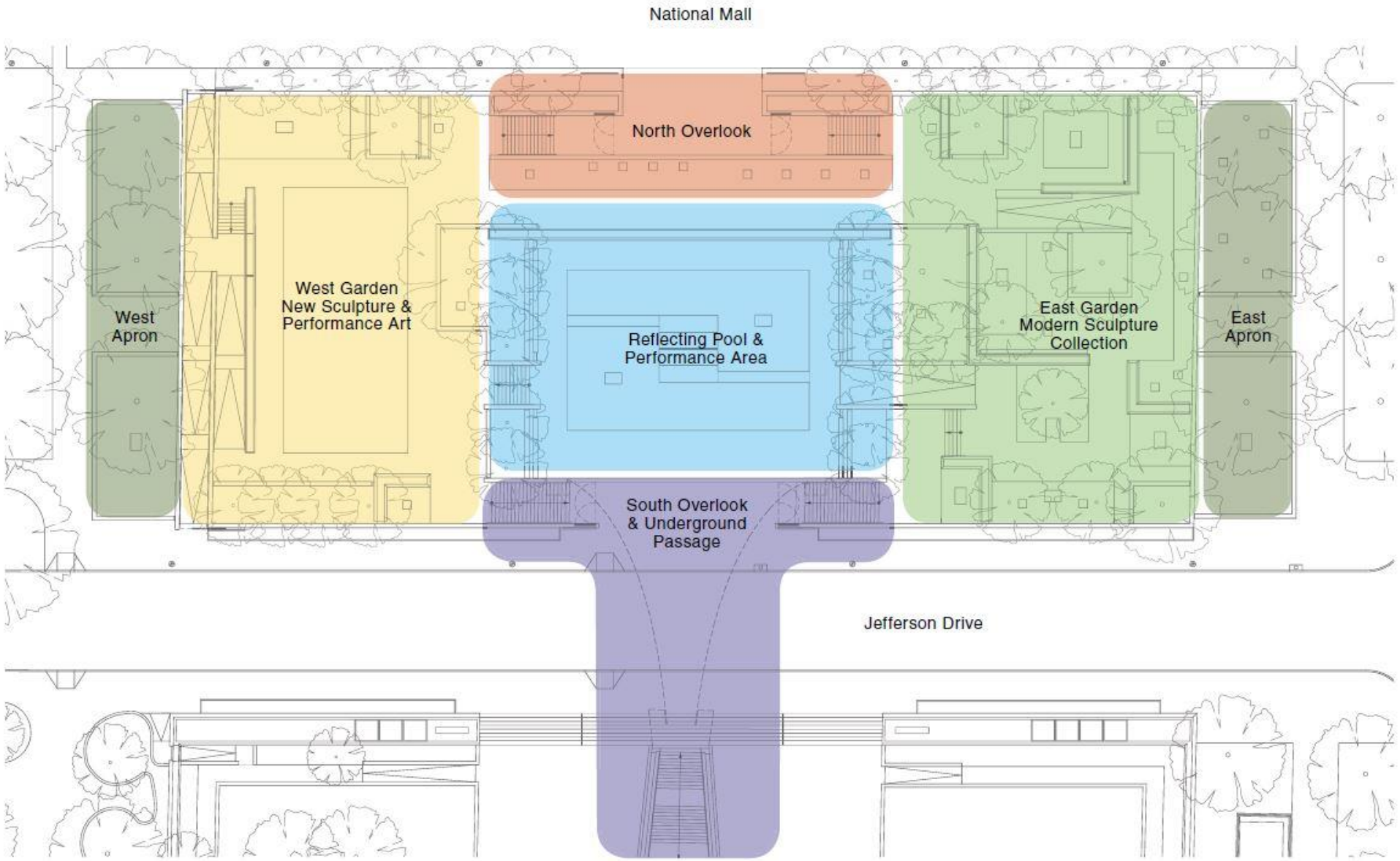
Kim Gordon, *Concert for Yoko Ono*, Hirshhorn Museum, 2017

Yayoi Kusama: Infinity Mirrors, 2017

Existing Sculpture Setting

Henry Moore, *King and Queen*, Hirshhorn Museum and Sculpture Garden

Garden Programming

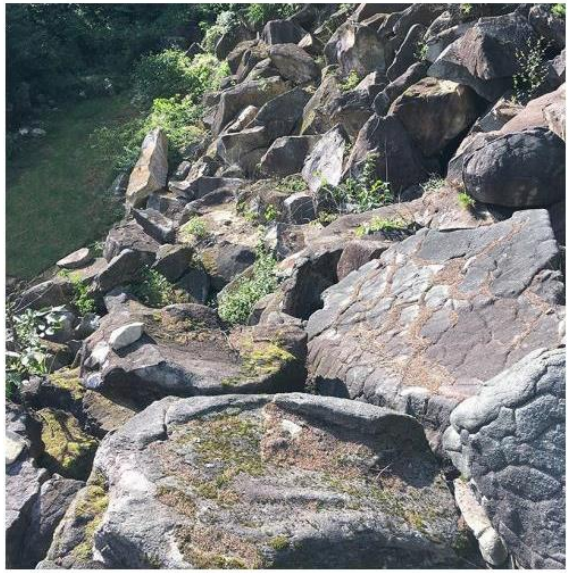


Hiroshi Sugimoto

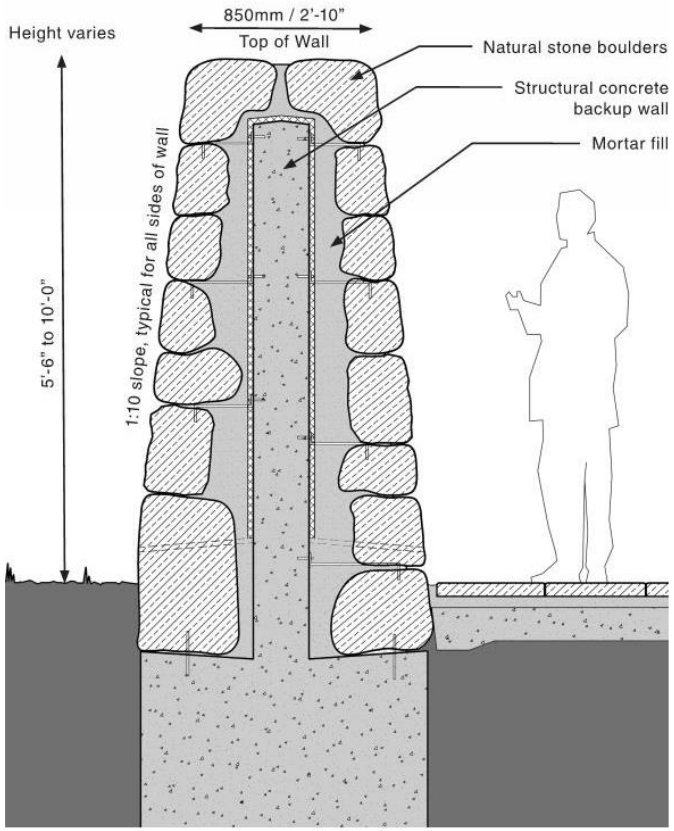
Hiroshi Sugimoto, *Hiroshi Sugimoto*, Hirshhorn Museum, 2006

Stacked Stone Walls

Proposed type of stone wall
(Shown here: Landscape walls at guest house in Kiyoharu, Japan by NMRL)

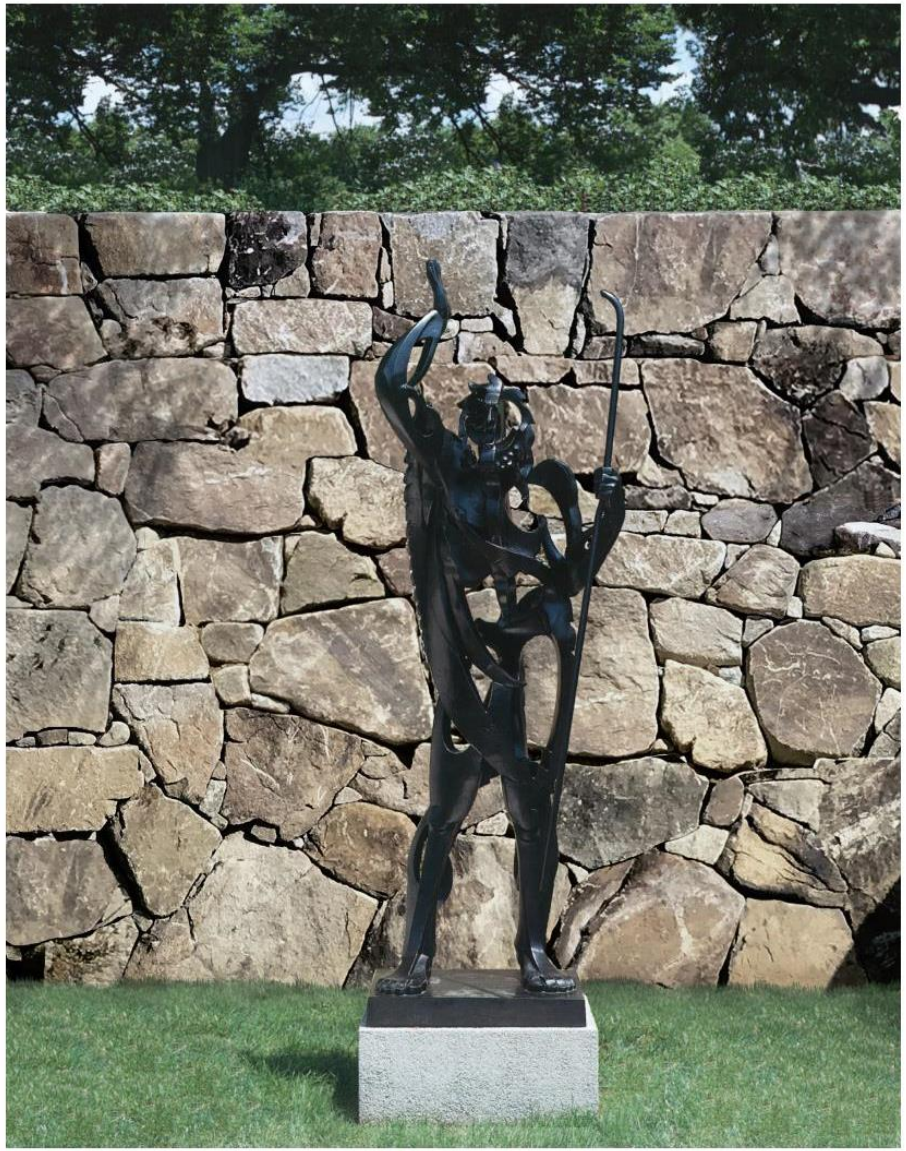


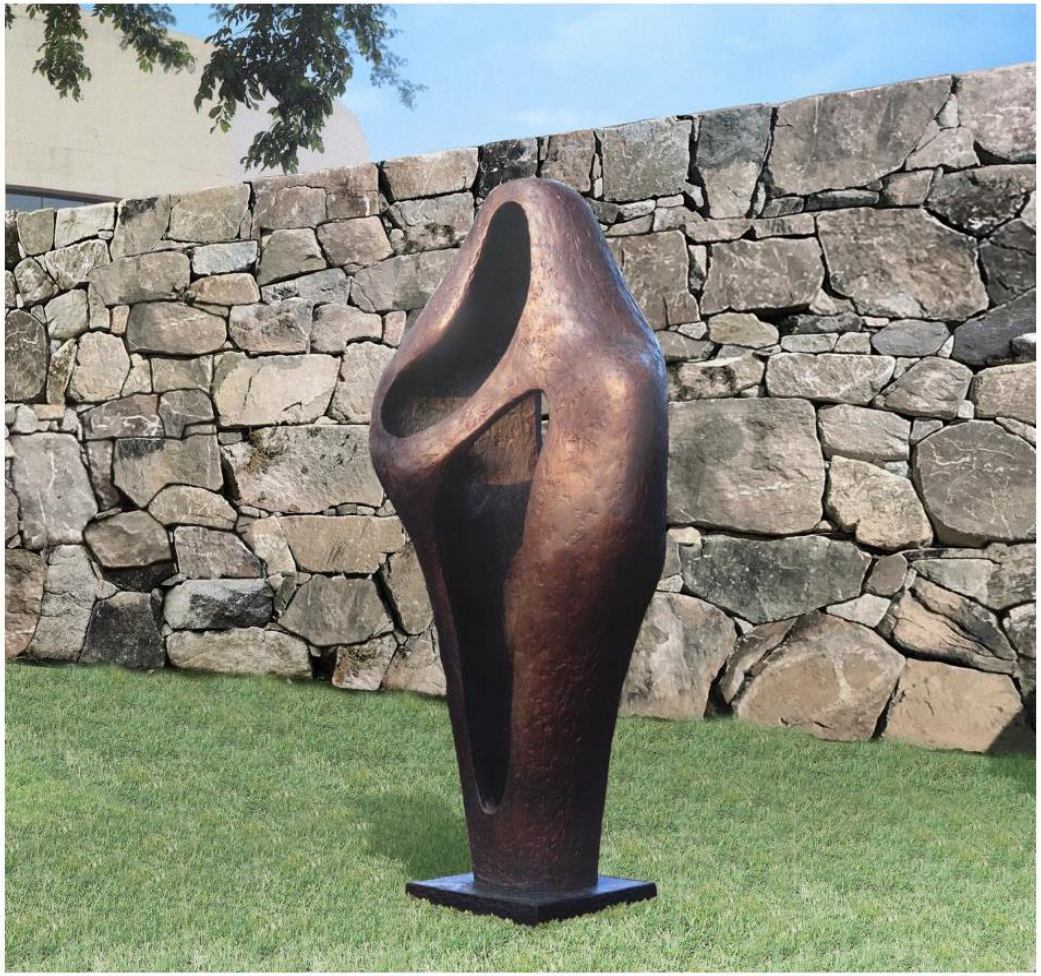
Proposed stone source, Japanese quarry. Other US stone sources are under consideration.



Proposed stone wall section 1:25

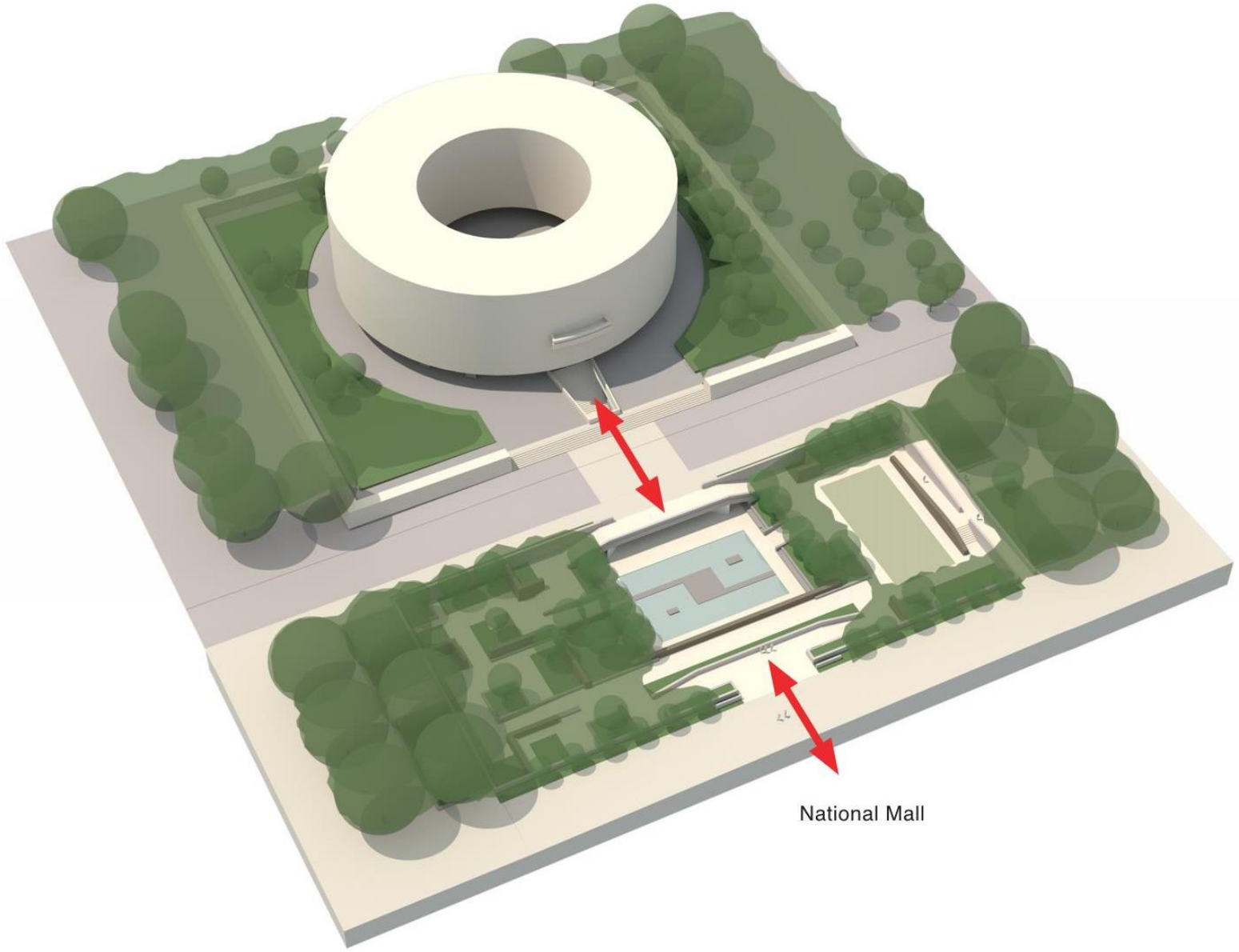
Stacked Stone Wall Renderings



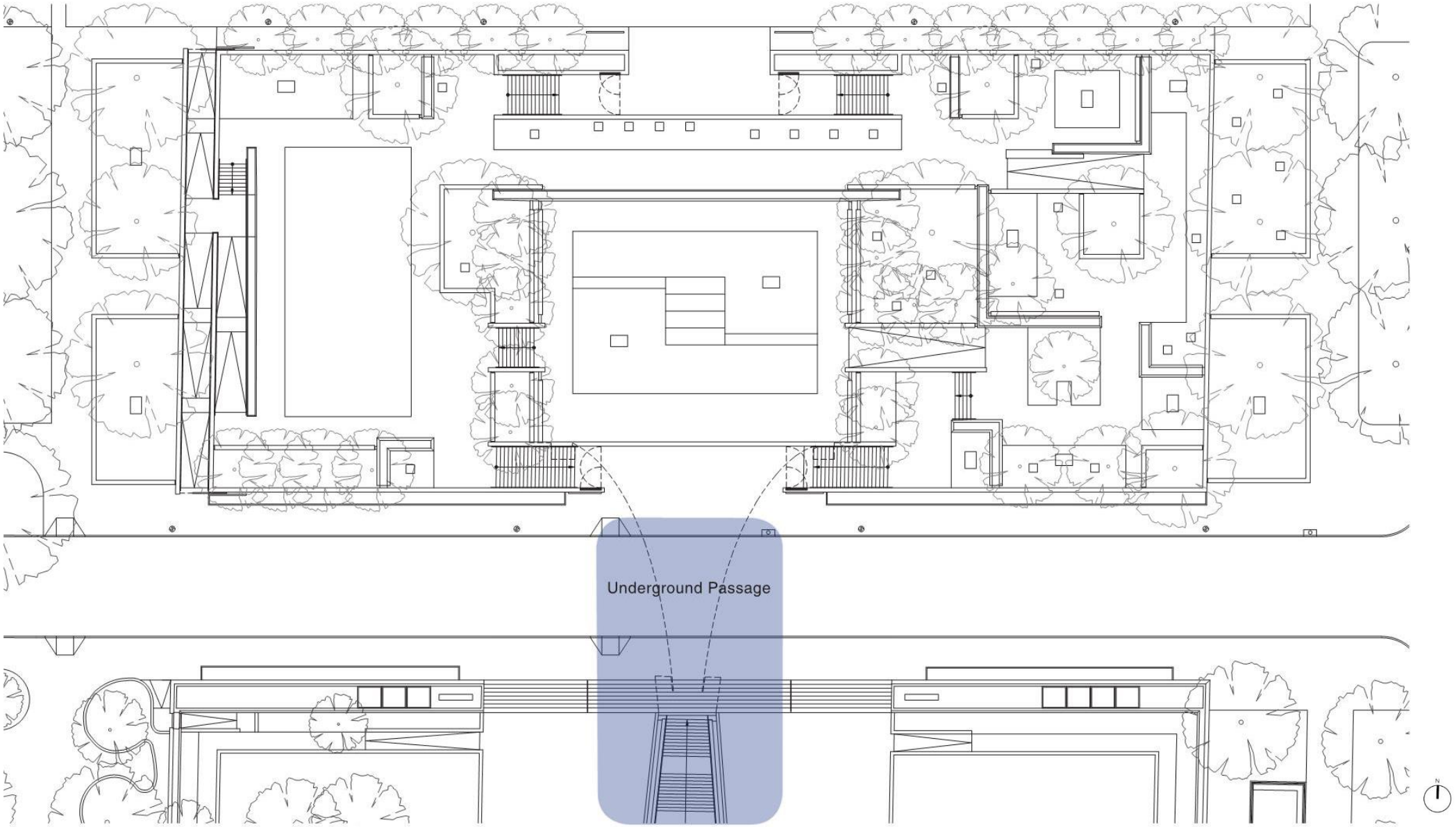


Renderings of bronze sculptures in front of stone walls

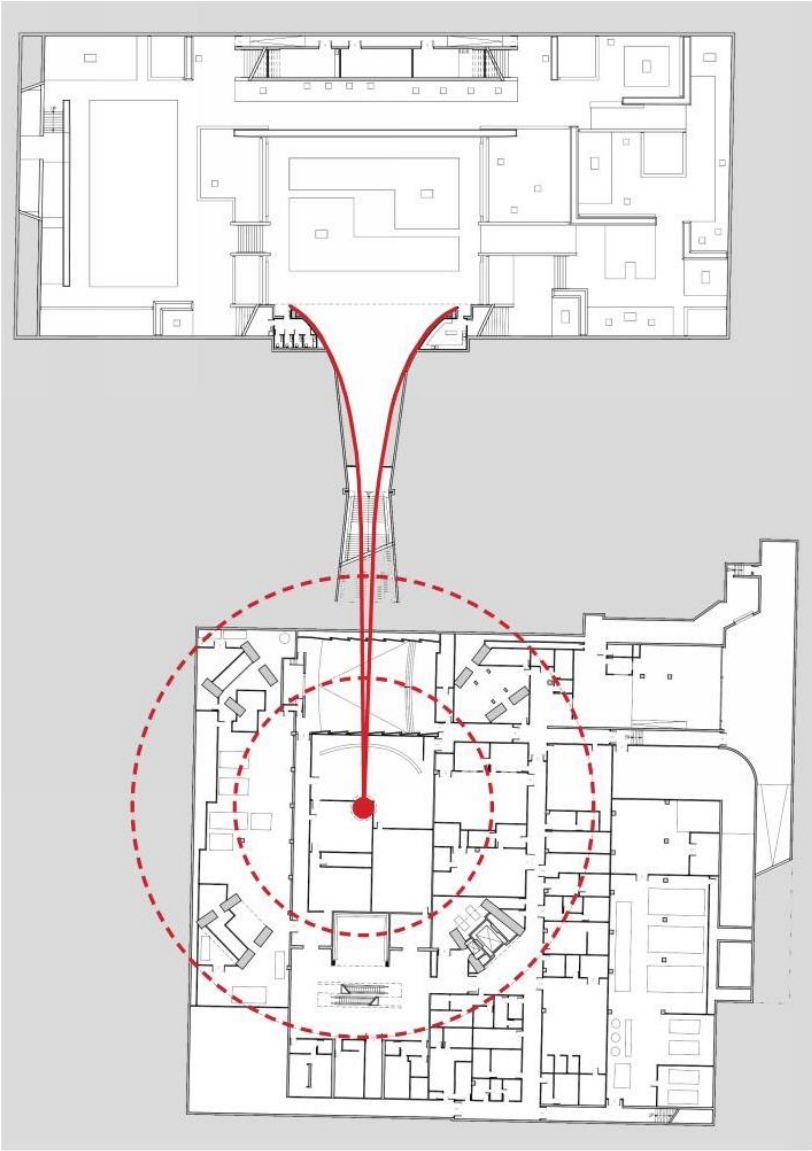
Reestablishing Relationship of National Mall, Garden and Museum



Underground Passage



Underground Passage Concept



Garden and Museum Lower Level

Hiroshi Sugimoto Sculpture at Otemachi, Tokyo

Concept Design

Comments or Questions

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Sculpture Garden Revitalization

Al Masino, Hirshhorn
Carly Bond, Smithsonian Facilities
Faye Harwell, Rhodeside & Harwell

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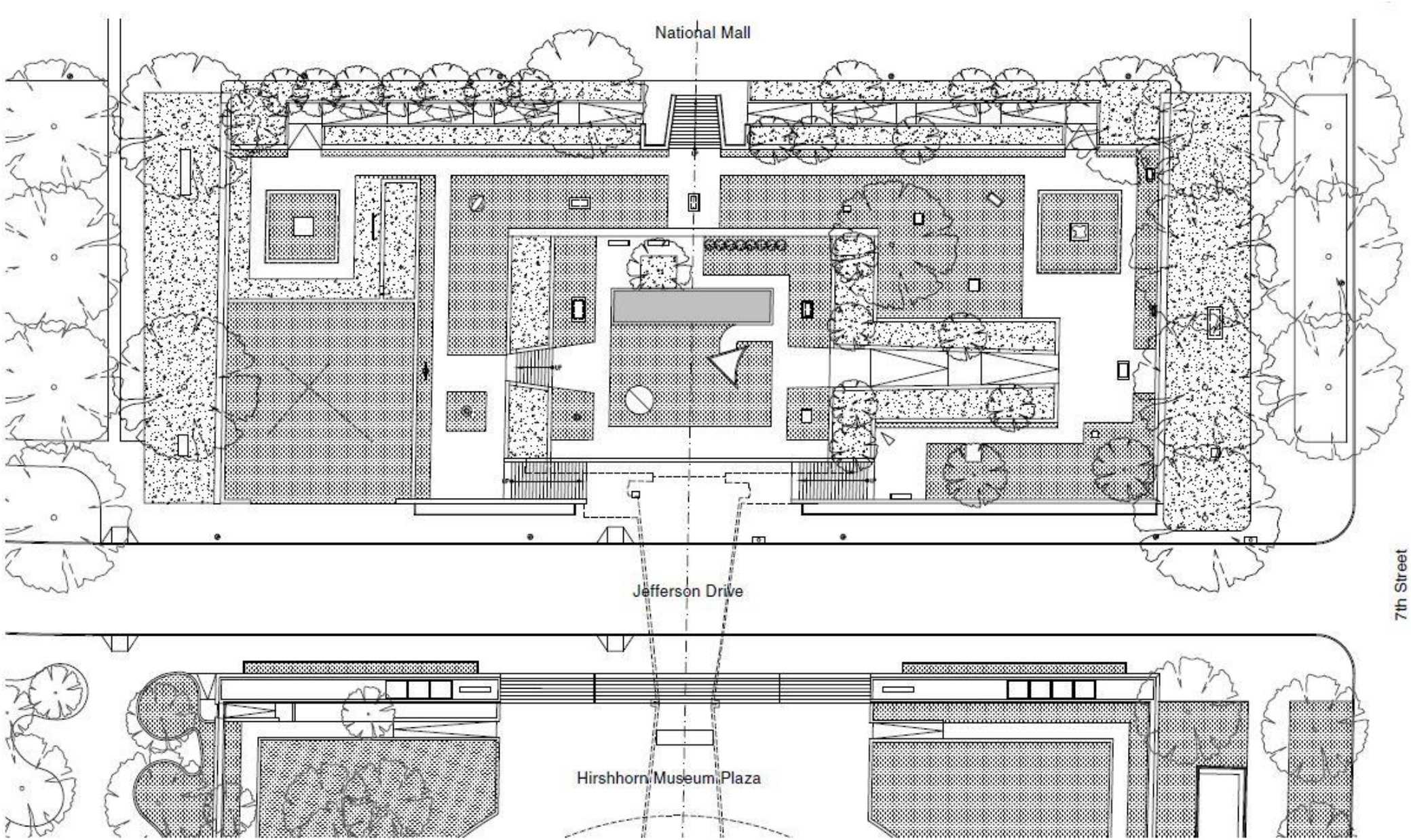
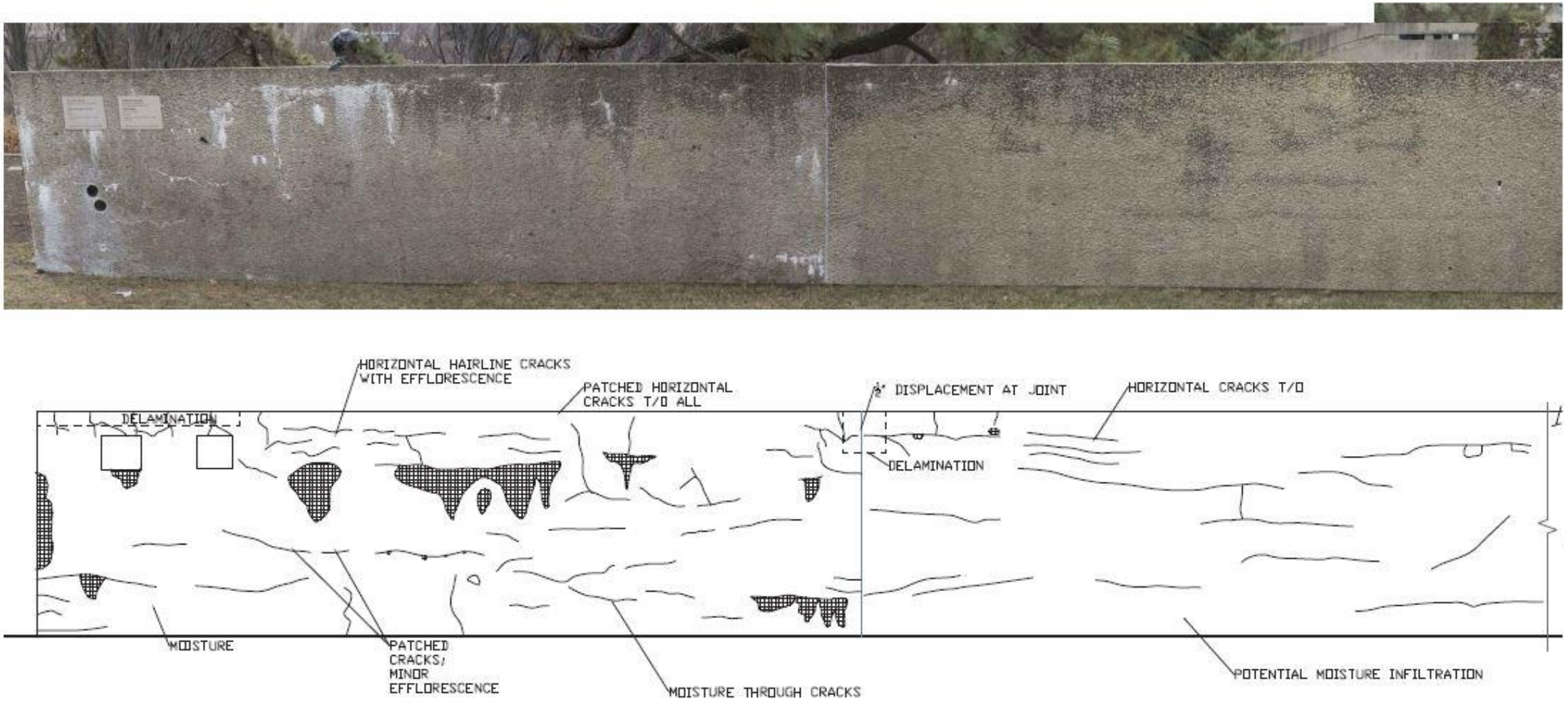
Current Sculpture Garden Site Plan



Sculpture Garden Wall Deterioration – Study 2016-2019



Visual examples of Alkali-Silica Reaction and internal sulfate attack, efflorescence, surface accumulation, 2018

Water Feature Deterioration

Pool perimeter condition, metal fin separates pool from perimeter gutter

Pool perimeter, deterioration of concrete and waterproofing

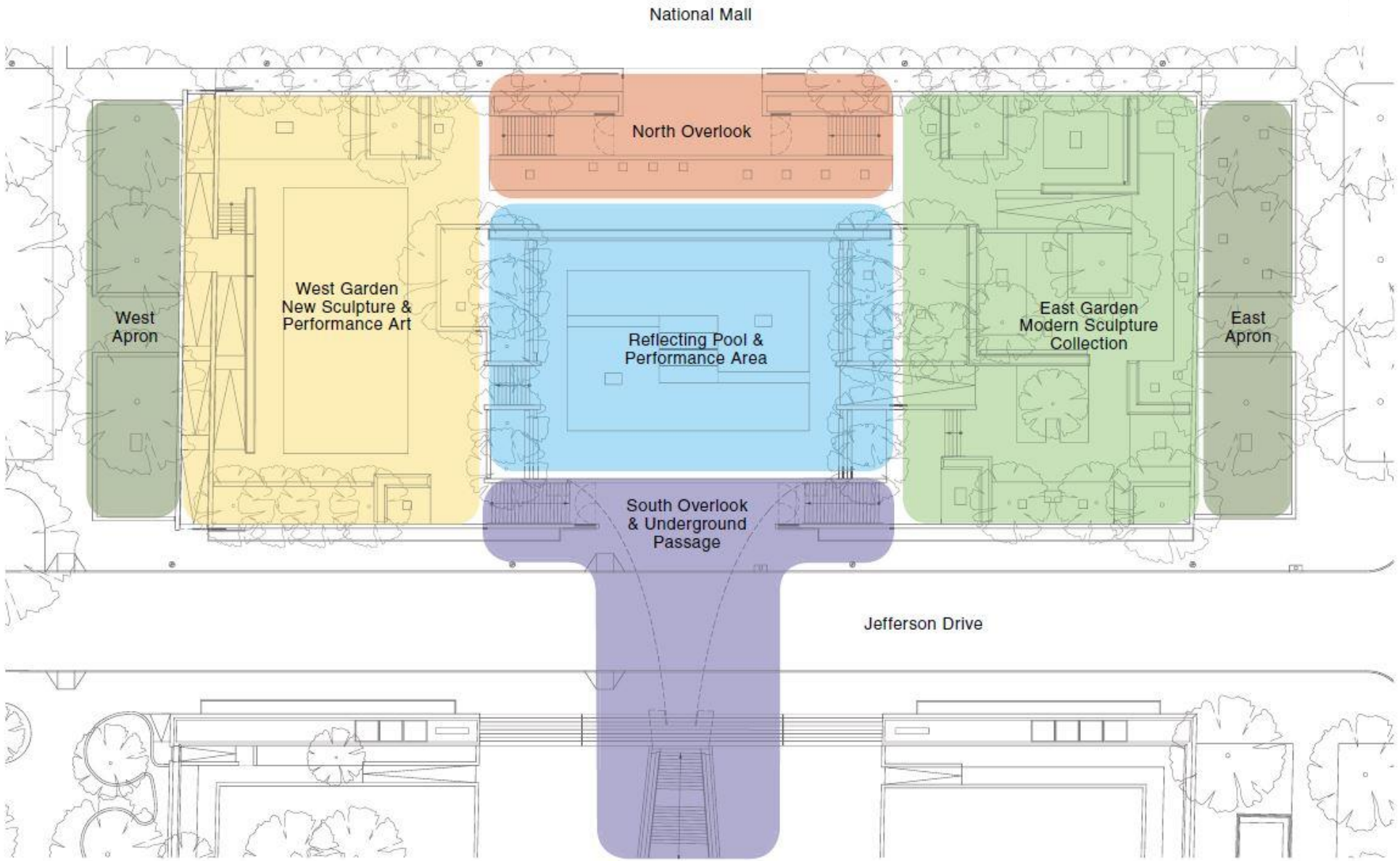
National Mall Views

East Apron

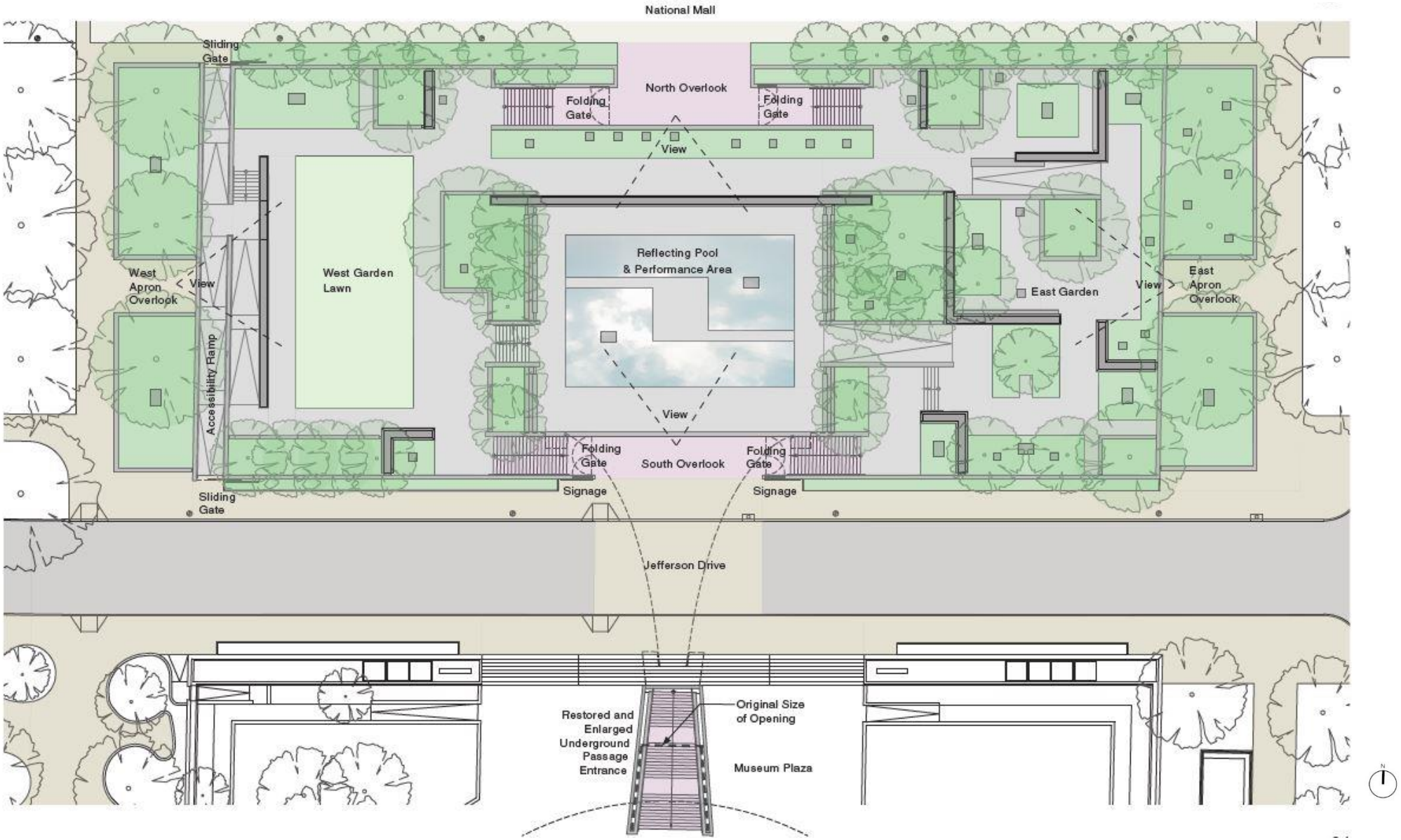
West Apron

National Mall Path

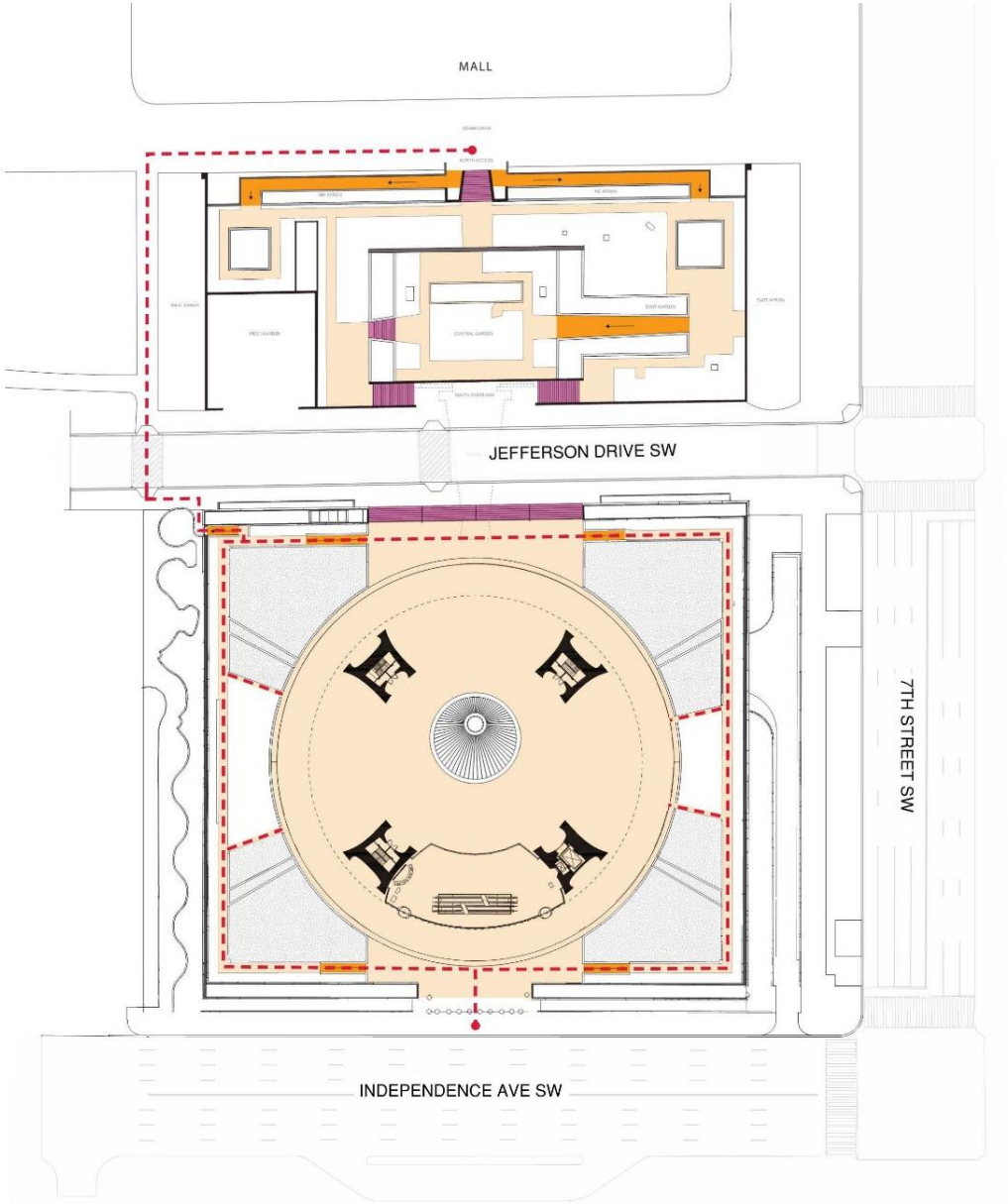
Garden Organization



Garden Plan


National Mall
Sliding Gate
North Overlook
Folding Gate
Folding Gate
View
West Apron Overlook
View
West Garden Lawn
Reflecting Pool & Performance Area
East Garden
View
East Apron Overlook
Accessibility Ramp
View
Folding Gate
South Overlook
Folding Gate
Signage
Signage
Sliding Gate
Jefferson Drive
Restored and Enlarged Underground Passage Entrance
Original Size of Opening
Museum Plaza

Existing Accessible Route



KEY

ENTRY POINT

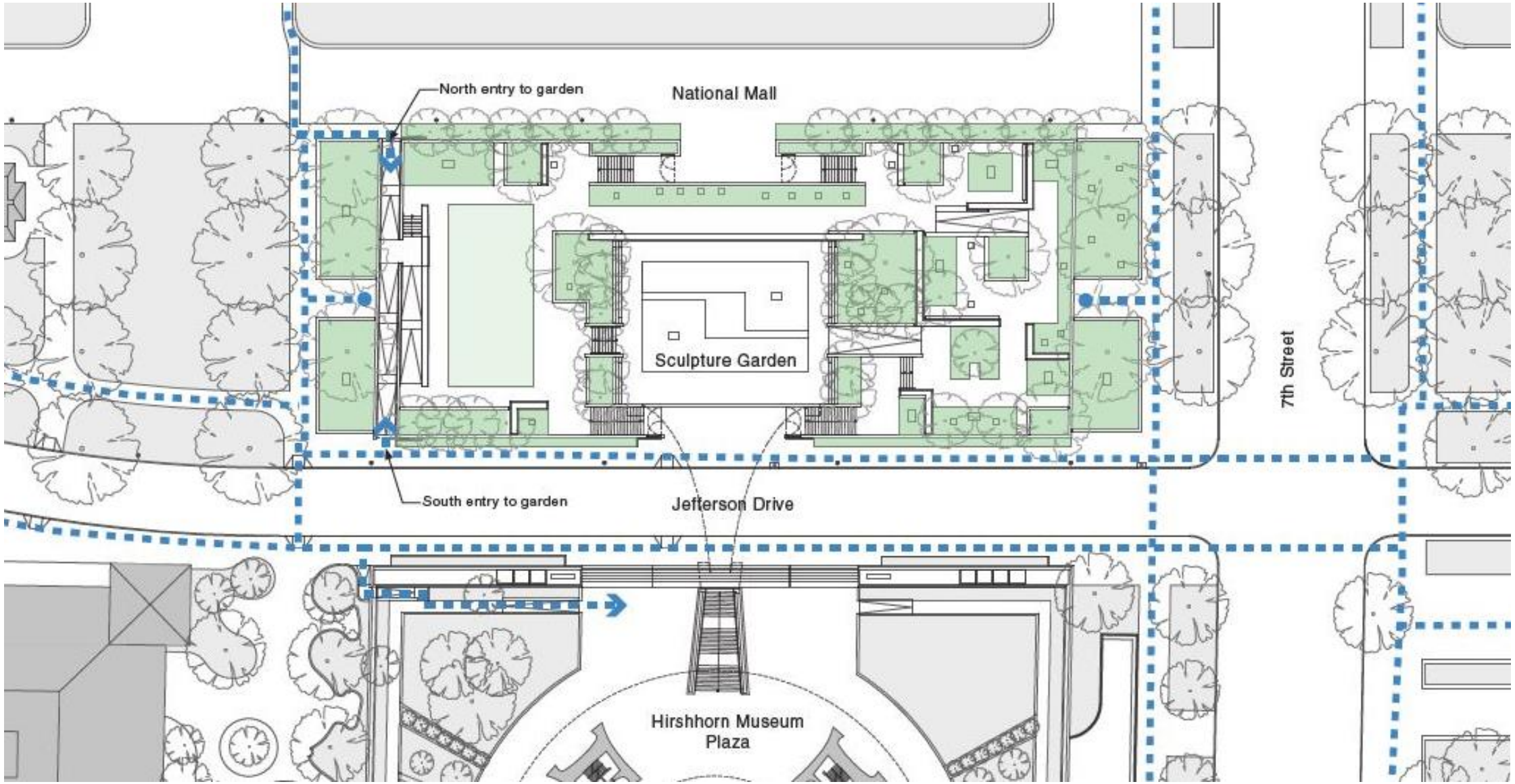
ACCESSIBLE PATH

AT GRADE ROUTE

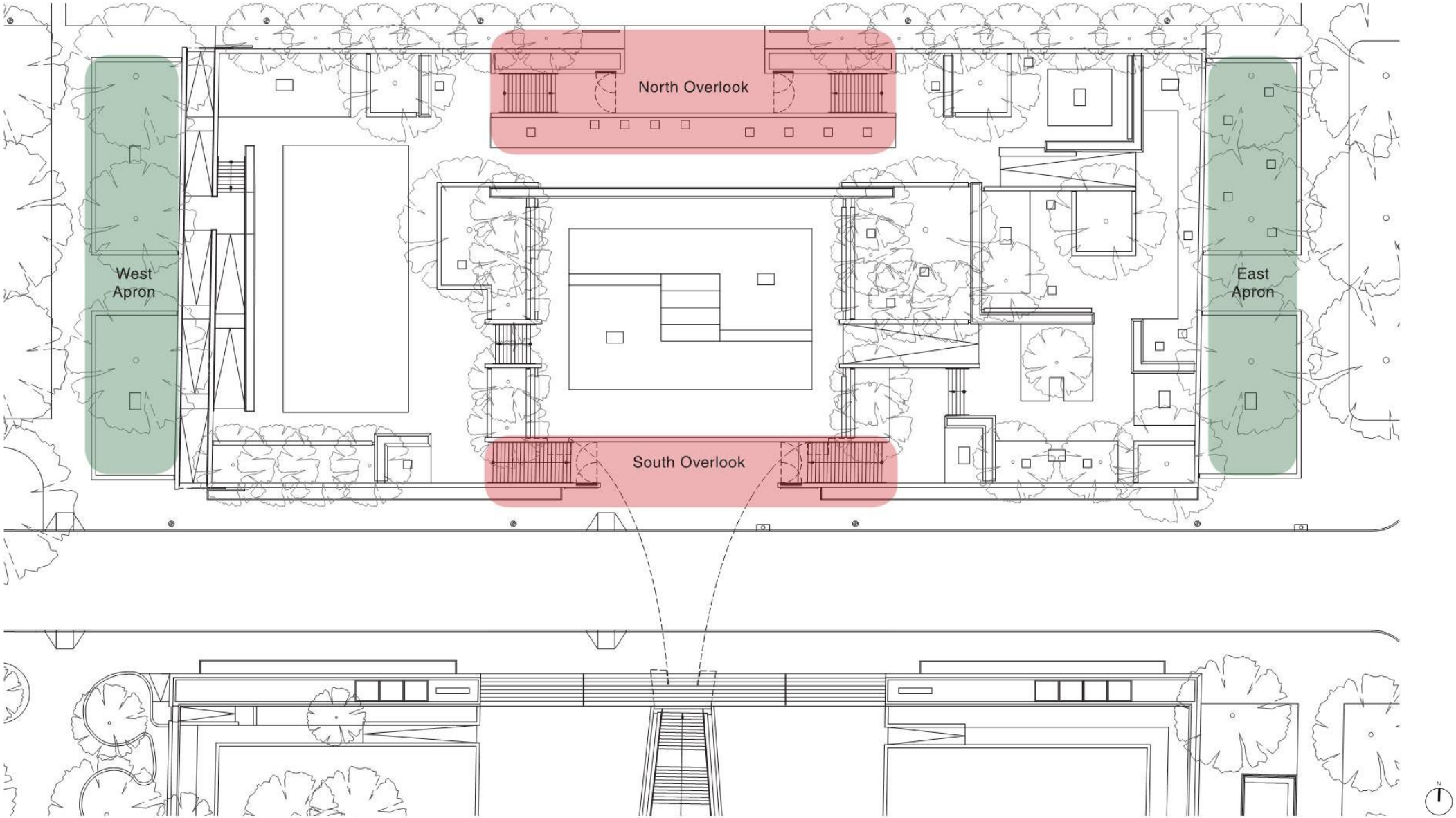
EXISTING RAMP/ SLOPED WALK

EXISTING STAIR

Improved Accessibility

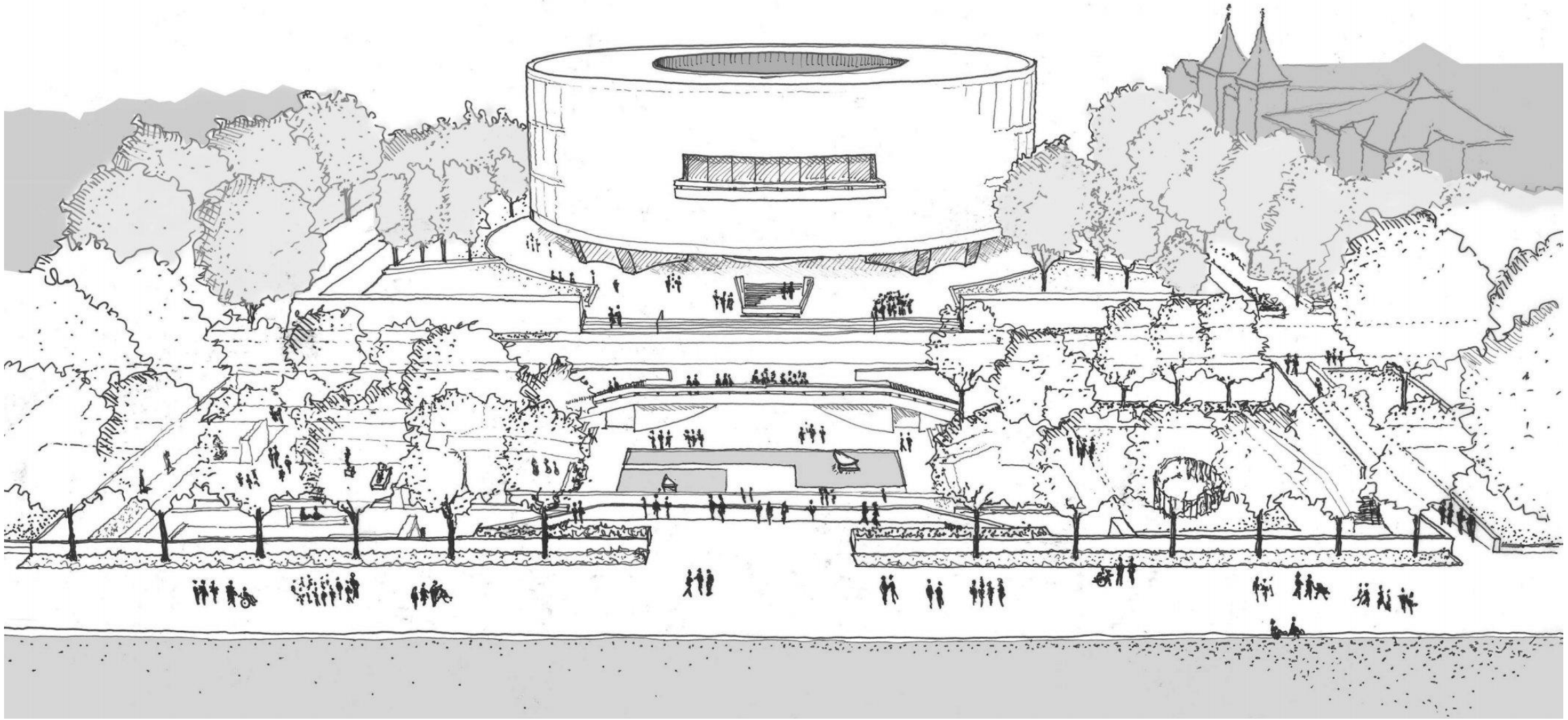


Garden Overlooks

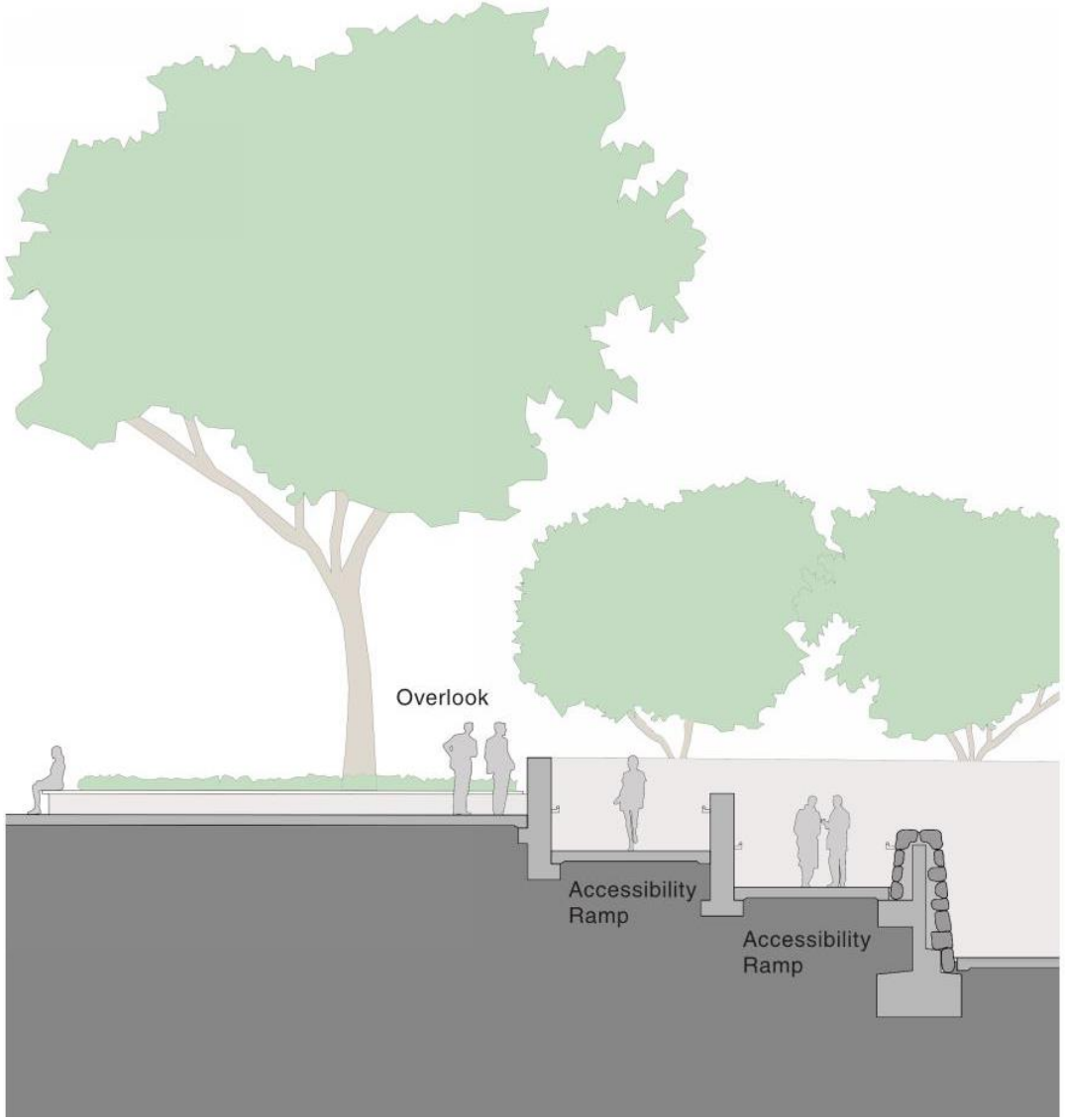


North Overlook

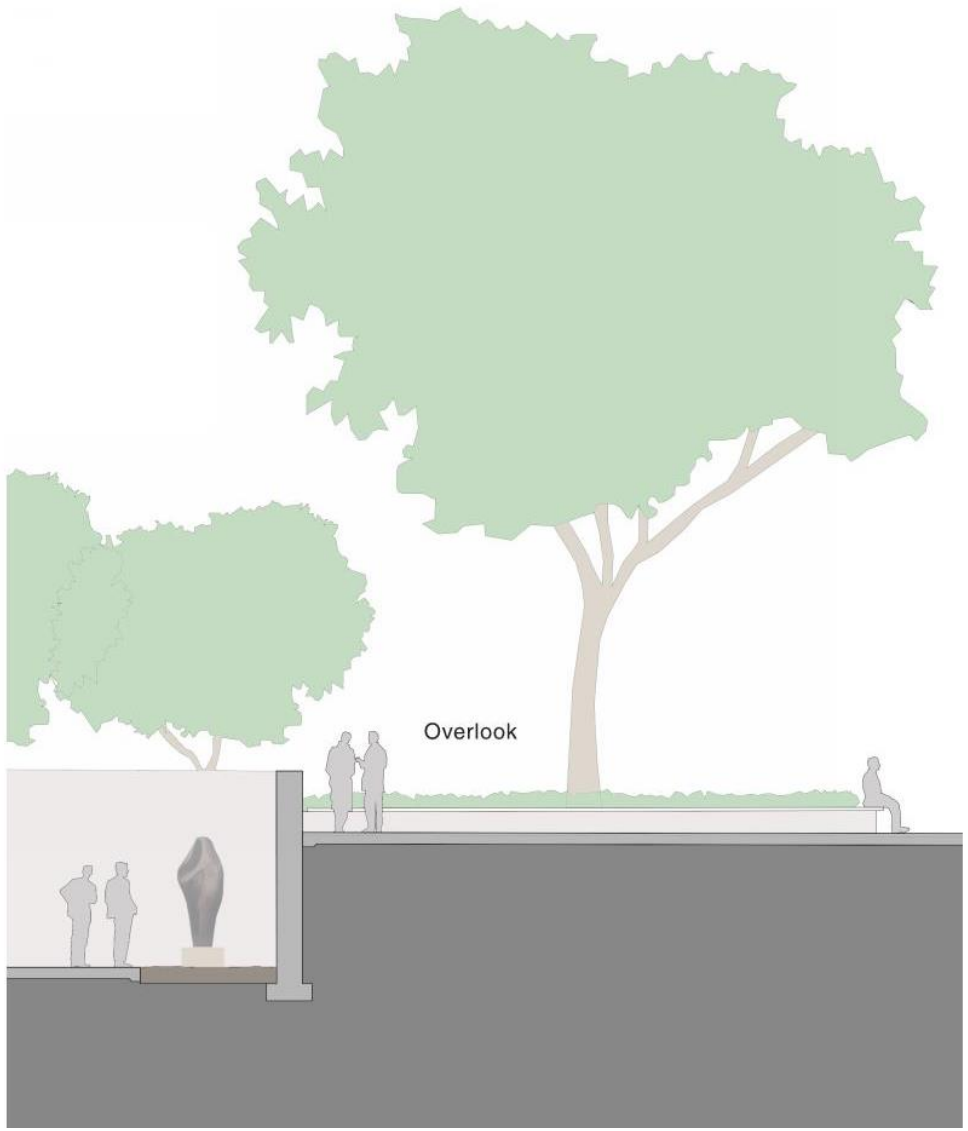
Concept Sketch Looking South



East and West Overlooks

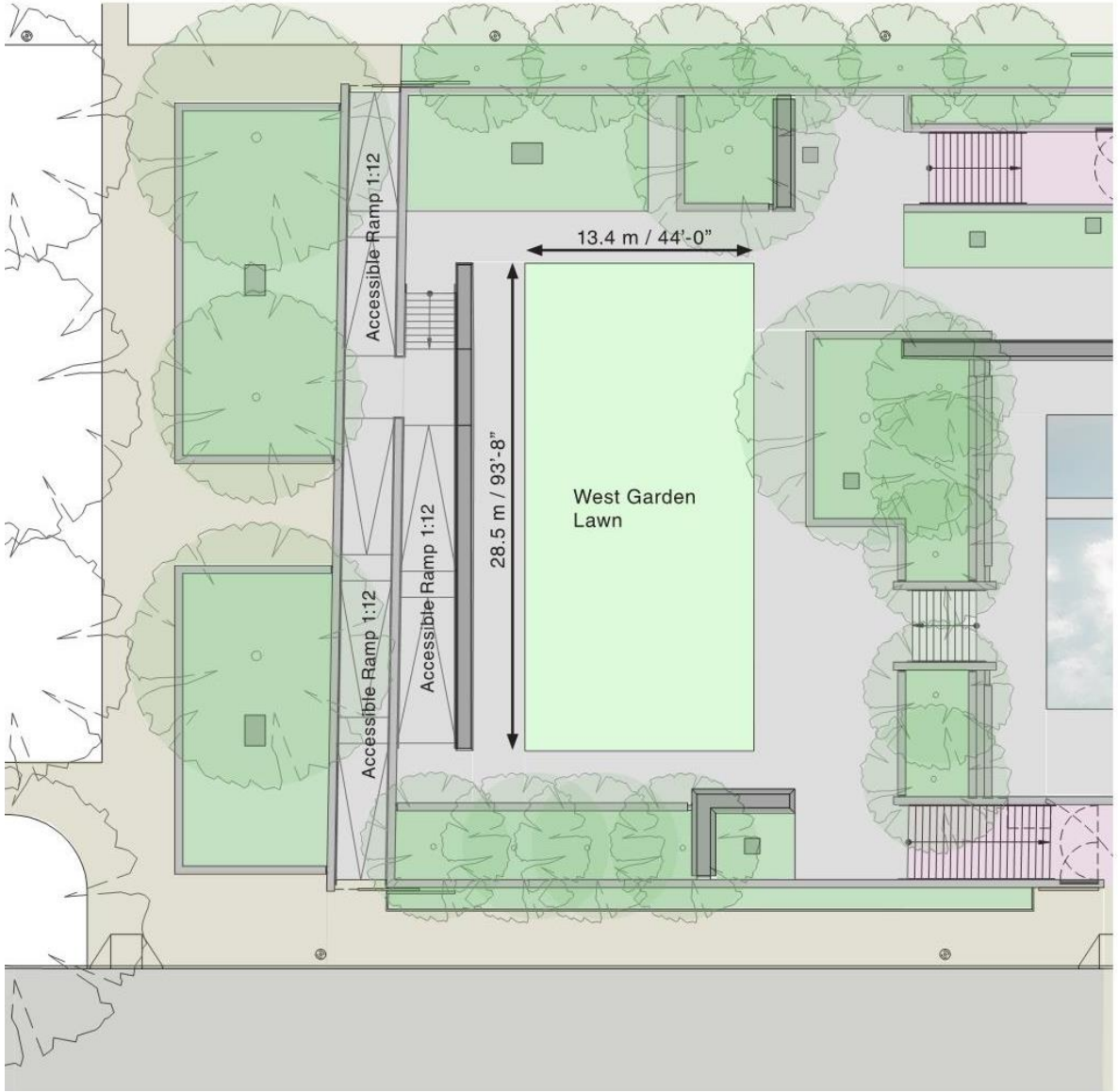


Section of West Overlook

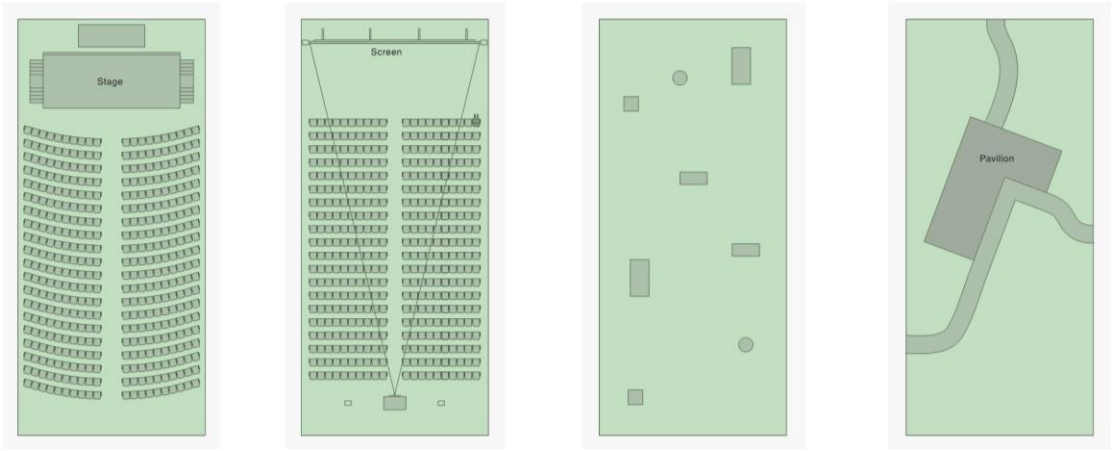


Section of East Overlook

West Garden and Flexible Program



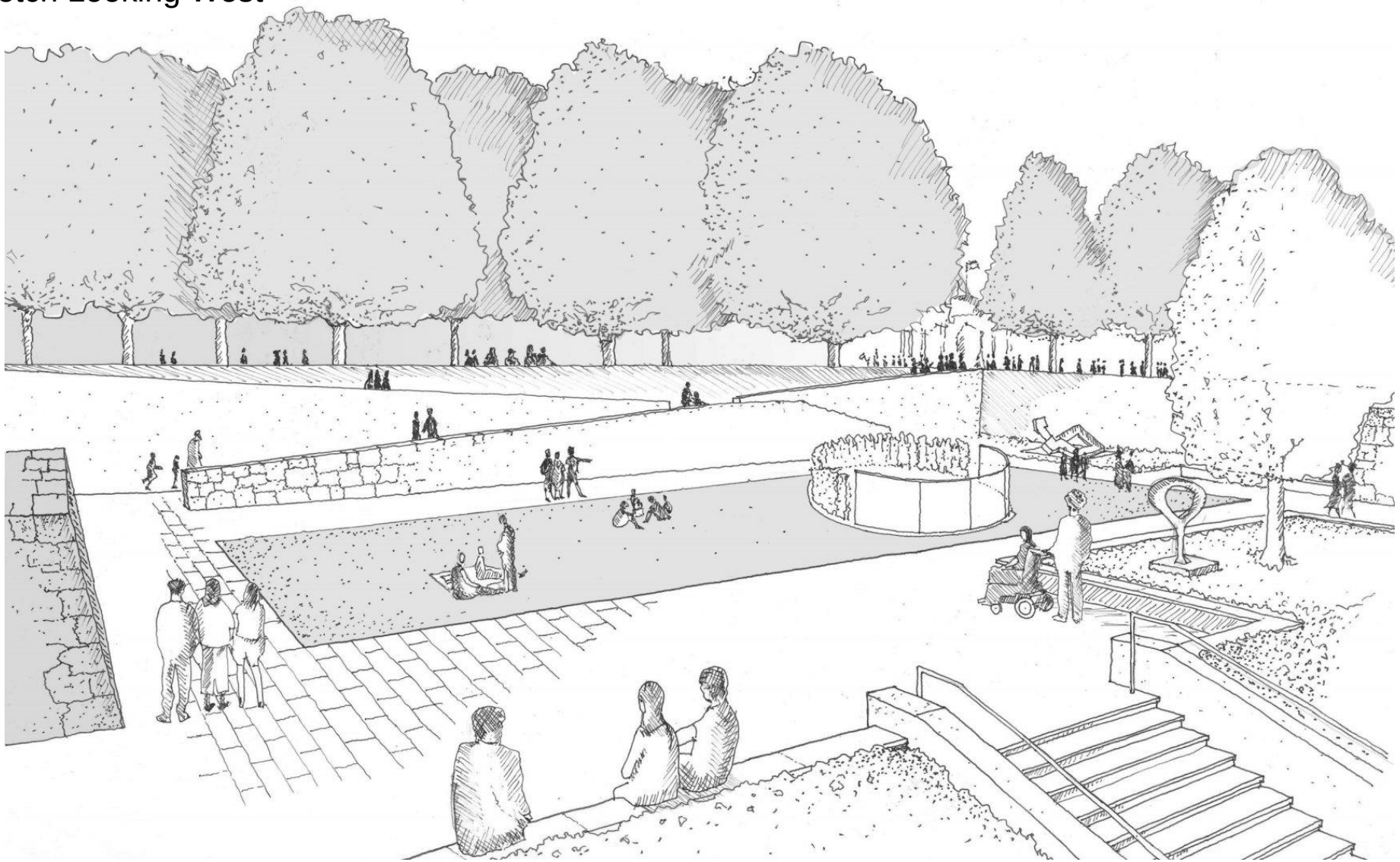
Enlarged Plan of West Garden



Potential Garden Uses

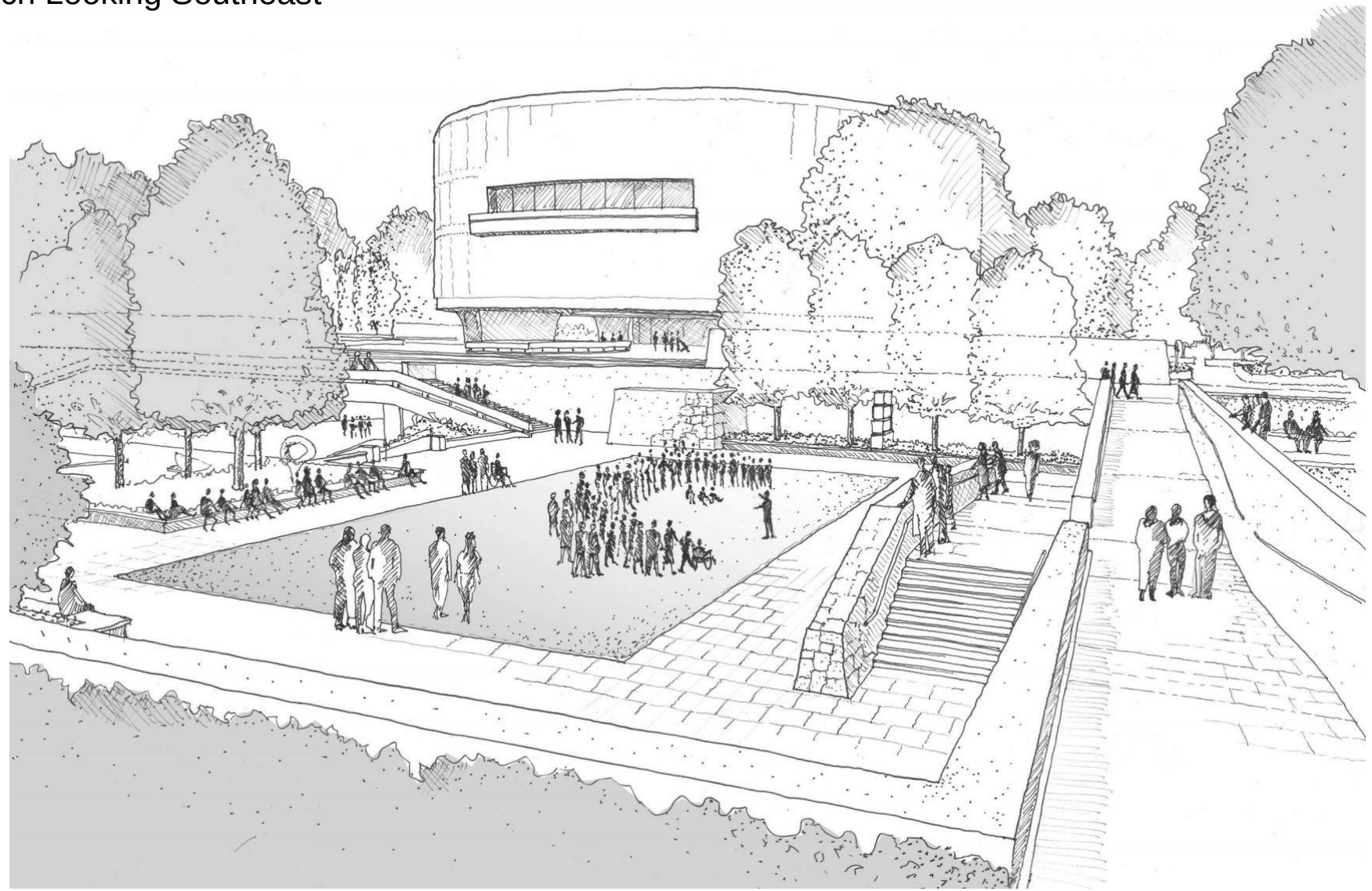
West Garden

Concept Sketch Looking West

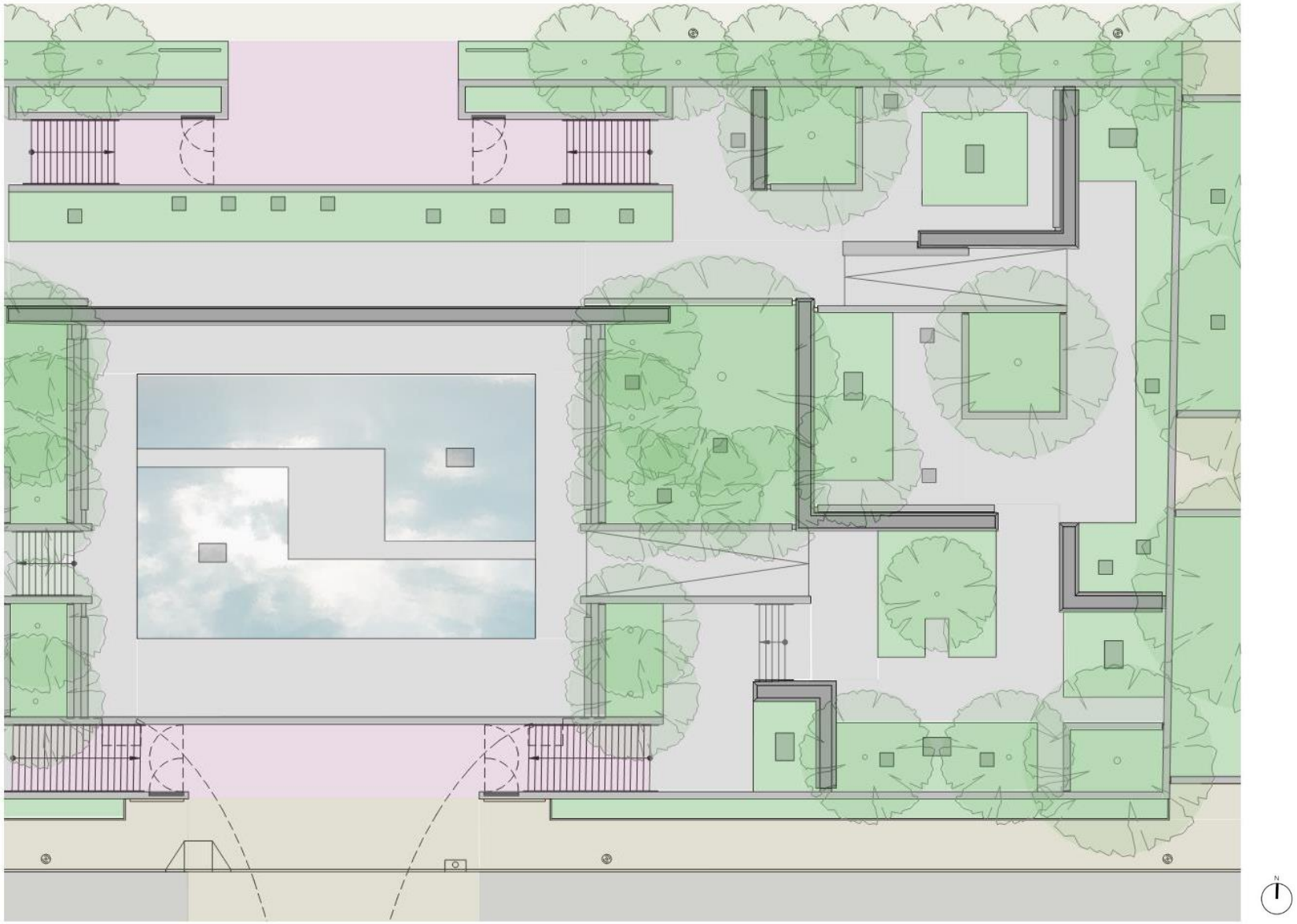


West Garden

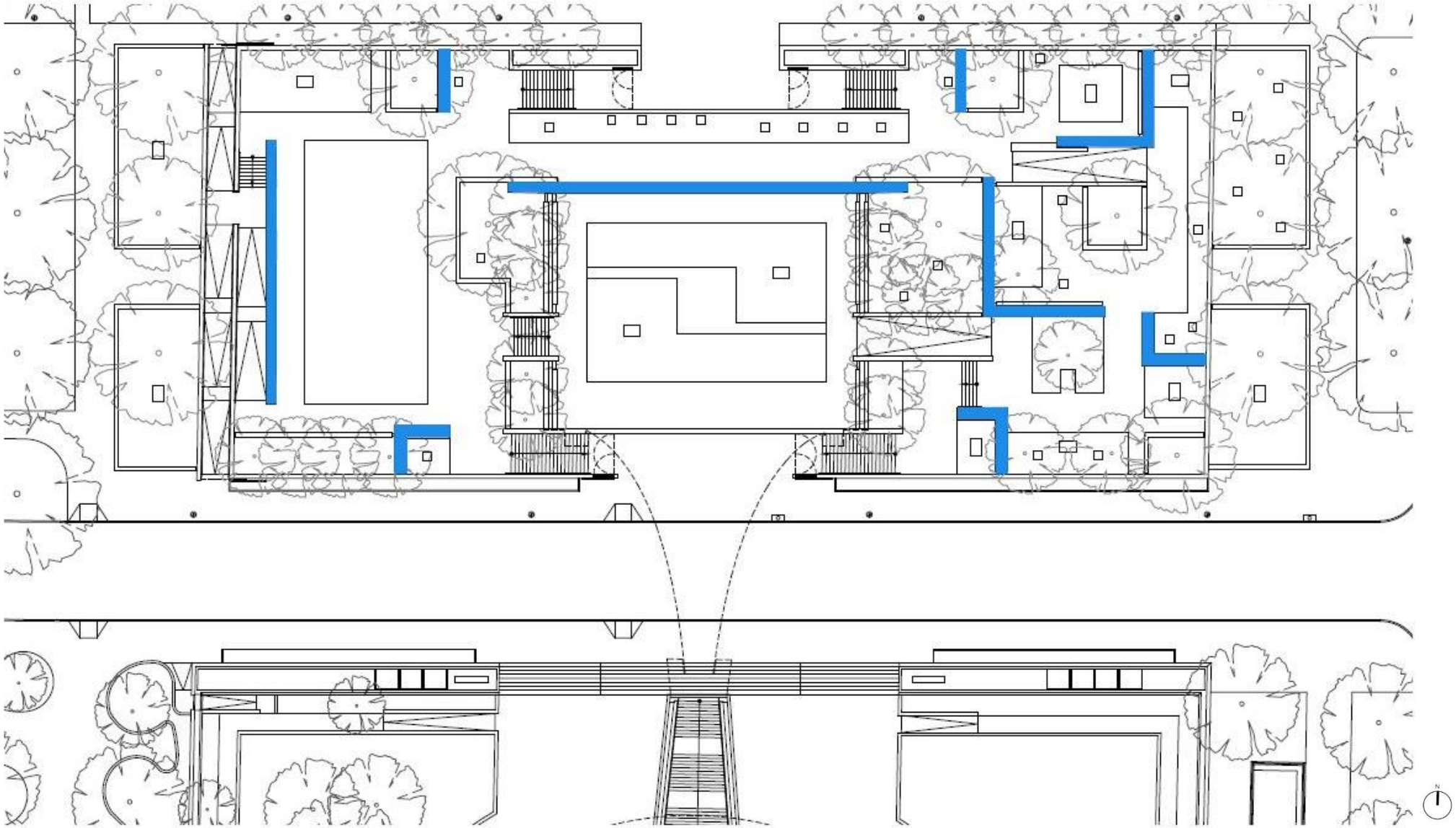
Concept Sketch Looking Southeast



East Garden Plan – Modern Bronze Collection

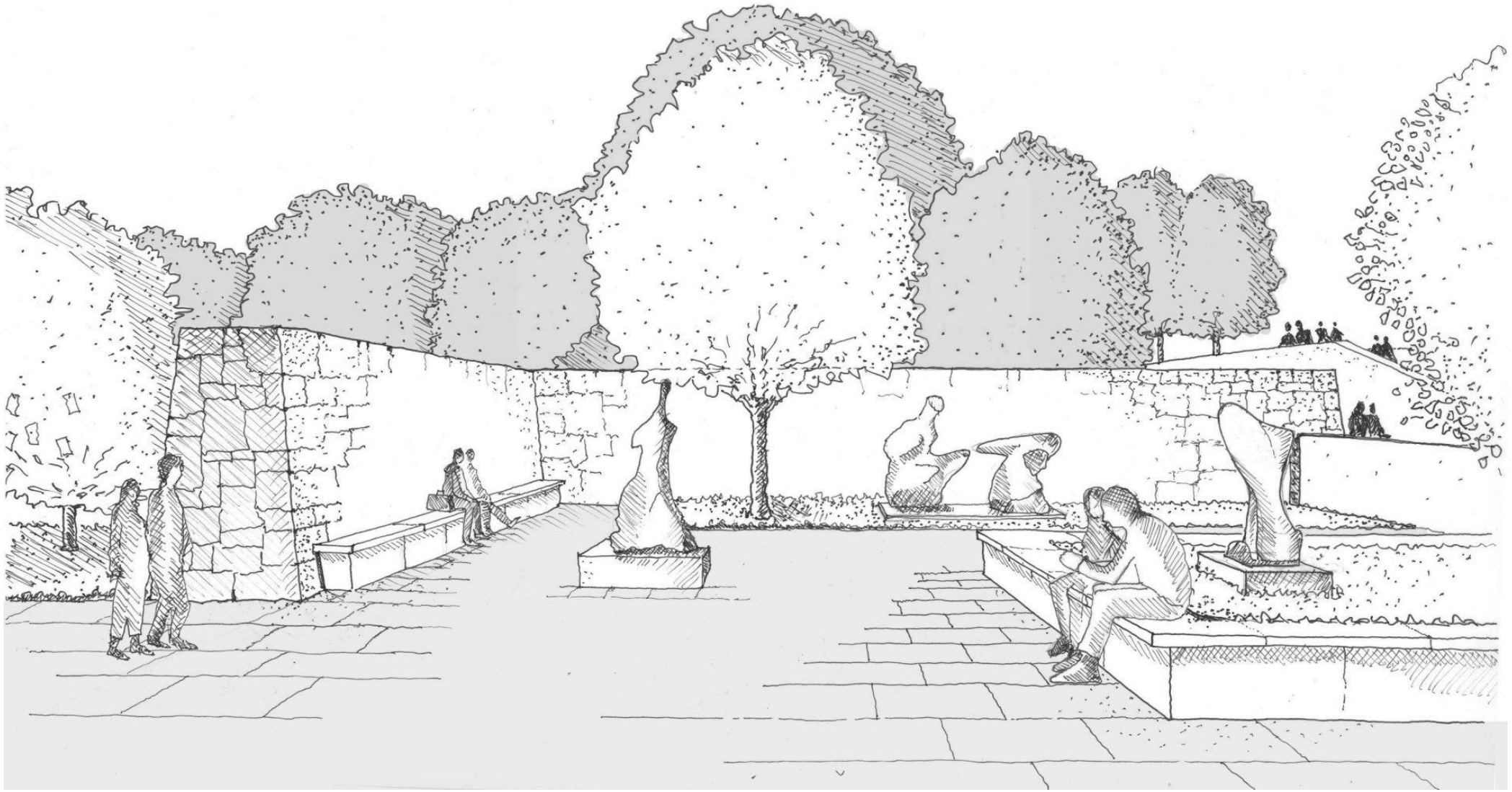


Stacked Stone Walls



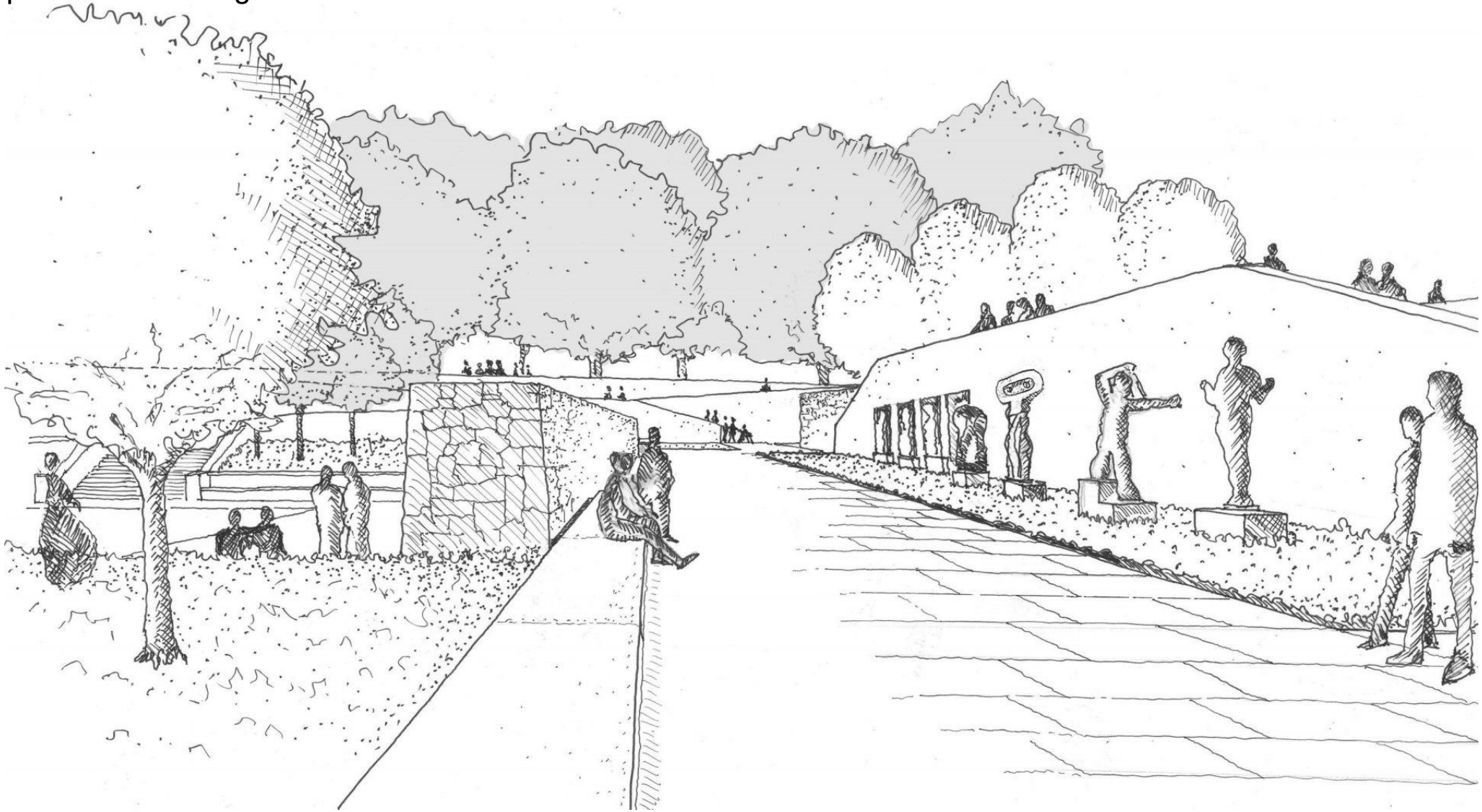
East Garden

Concept Sketch Looking West



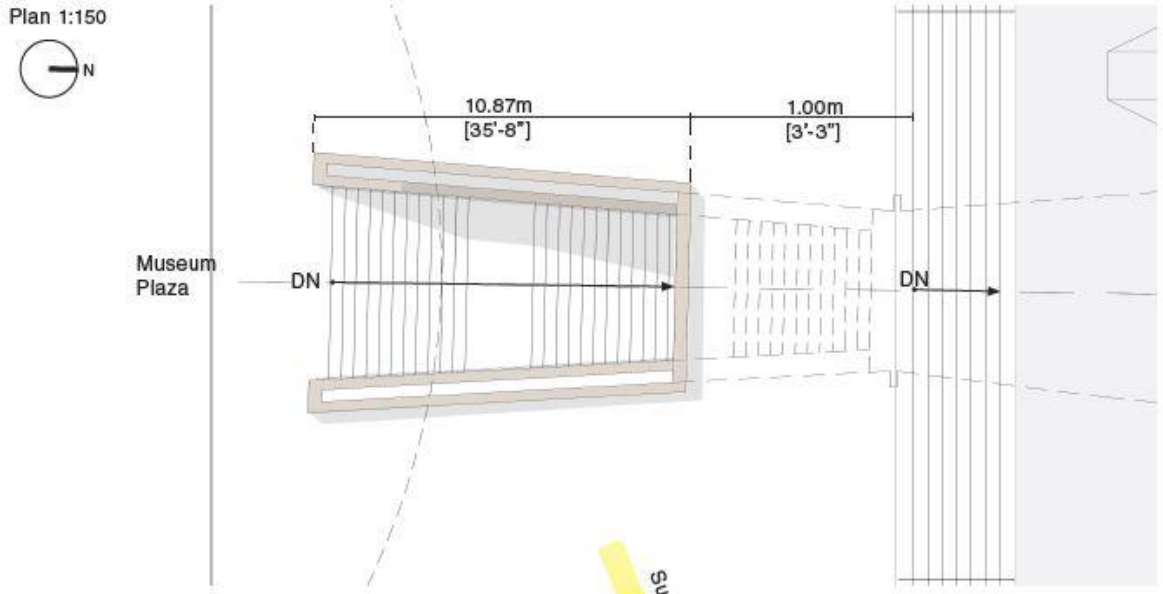
East Garden

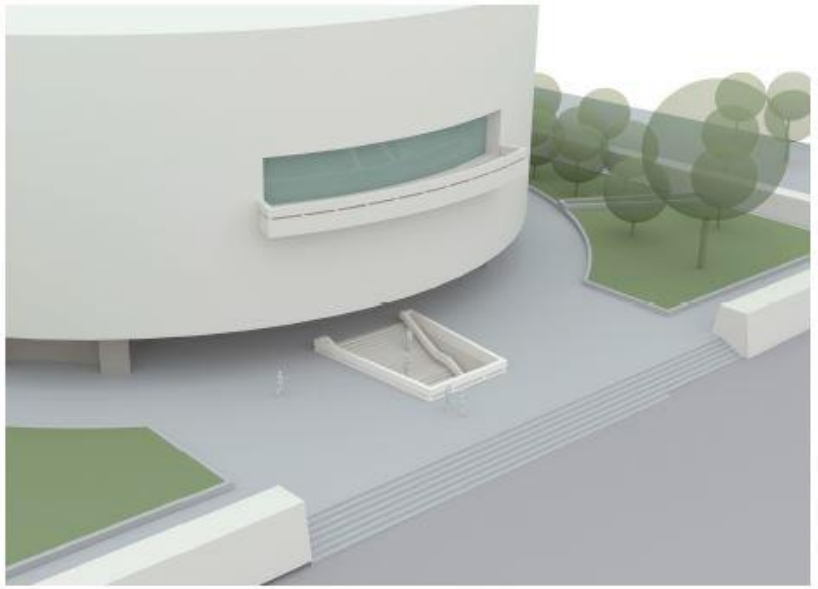
Concept Sketch Looking West

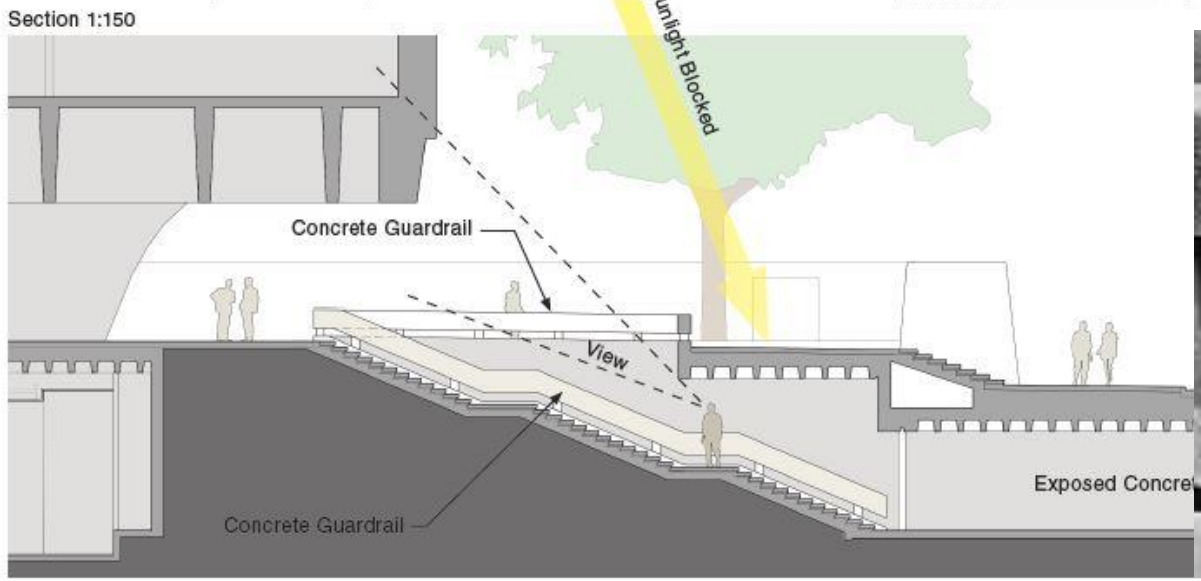


Original Entrance to Underground Passage

Original Bunshaft Design

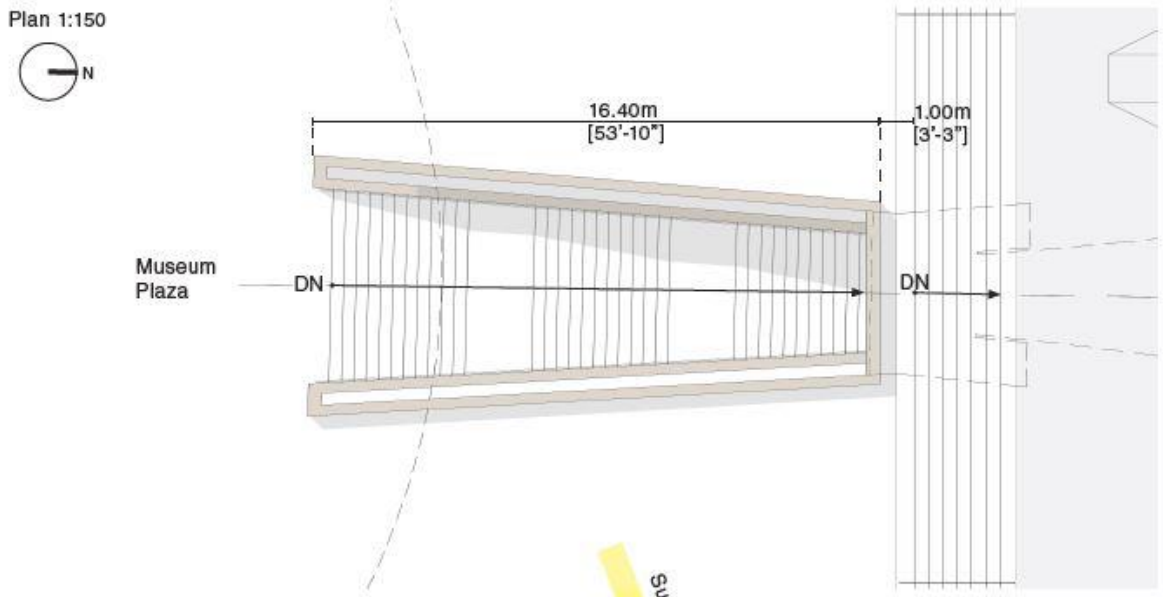


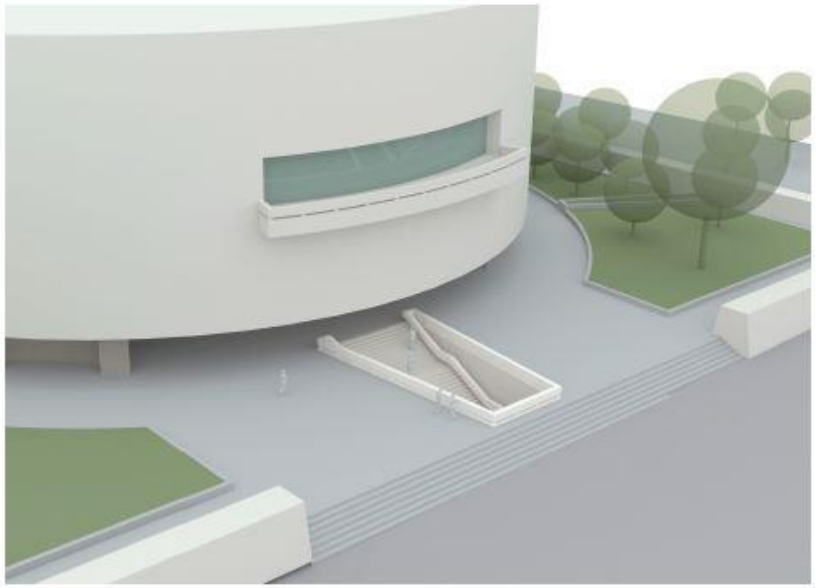


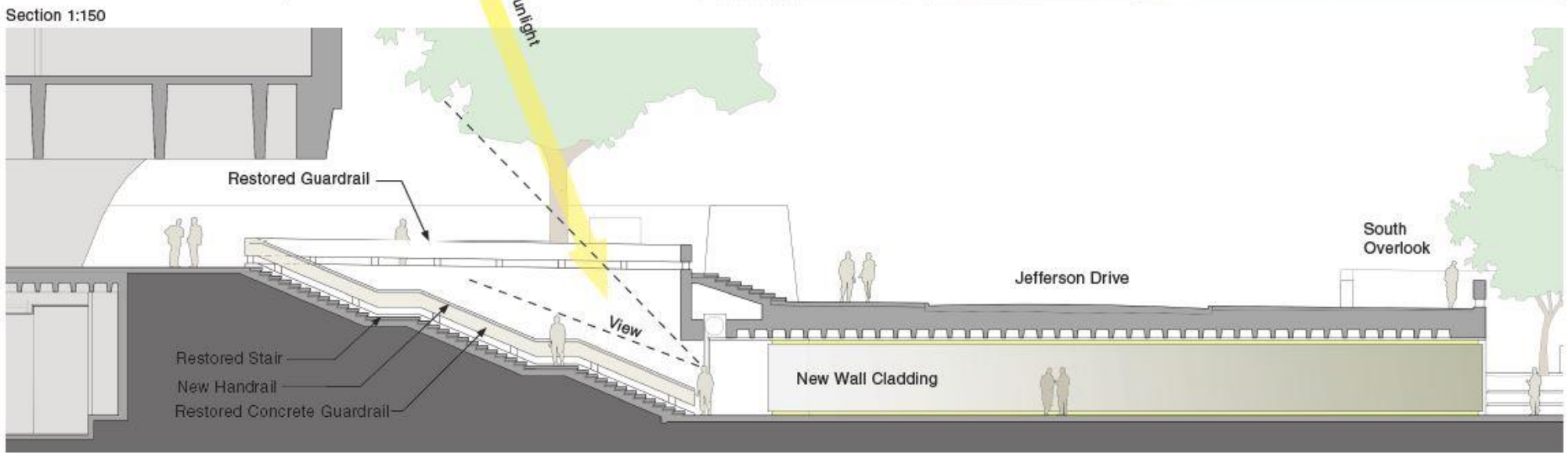


Preferred Alternative - Entrance to Underground Passage

Enlarged Opening

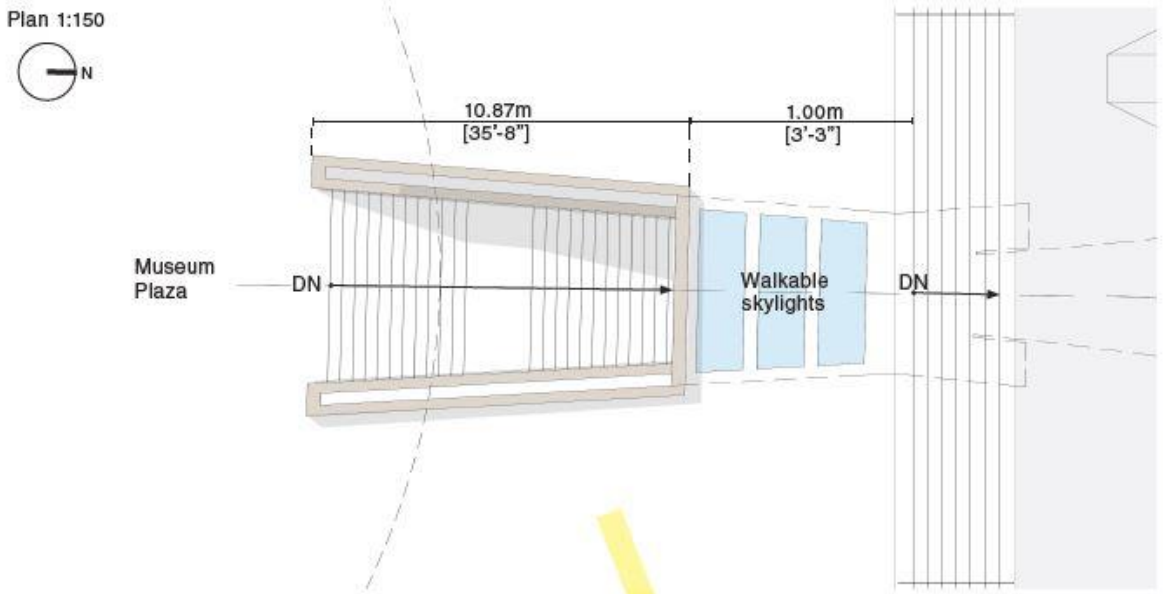


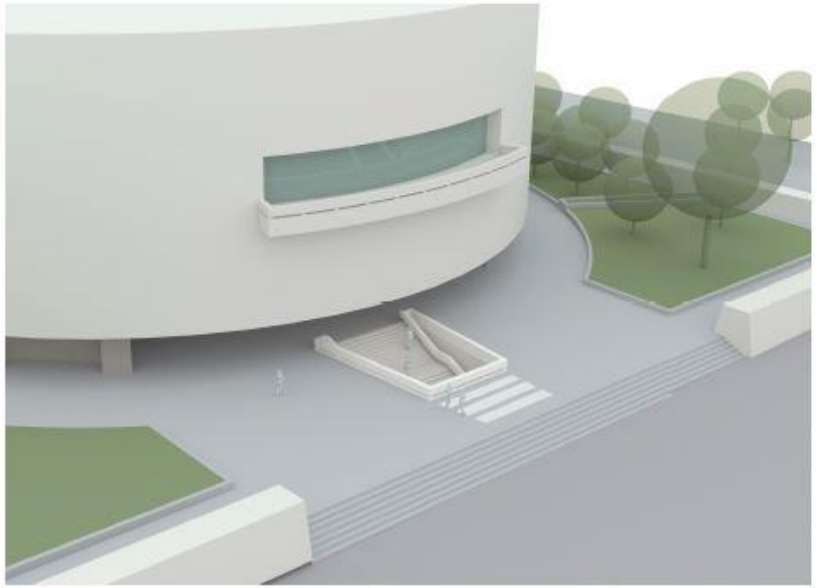




Alternative 1 - Entrance to Underground Passage

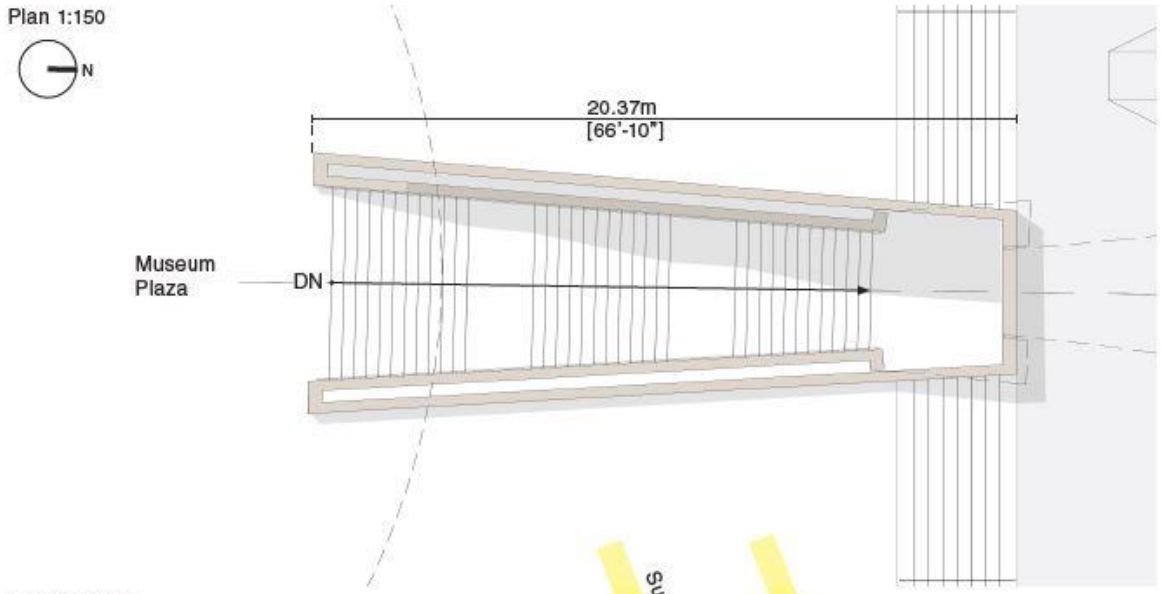
Original Opening with Skylights

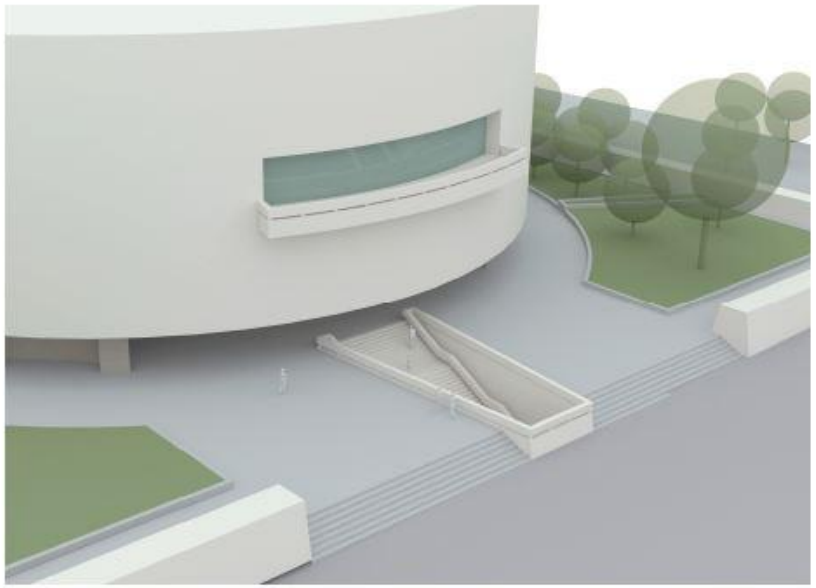


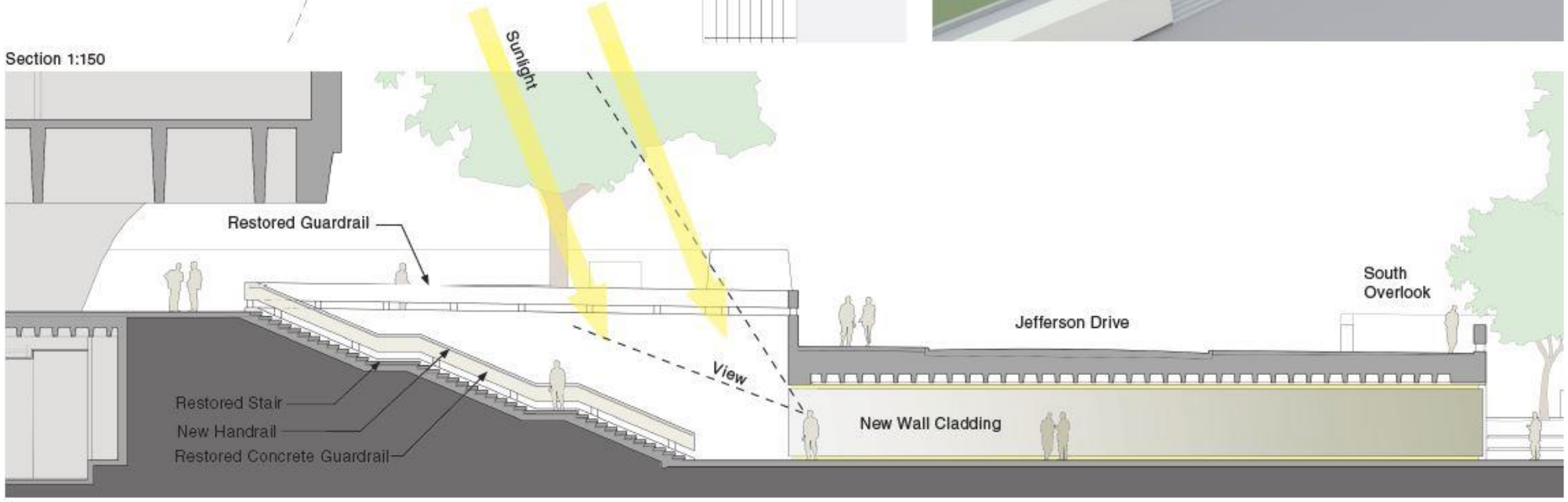


Alternative 2 - Entrance to Underground Passage

Maximum Stair Opening

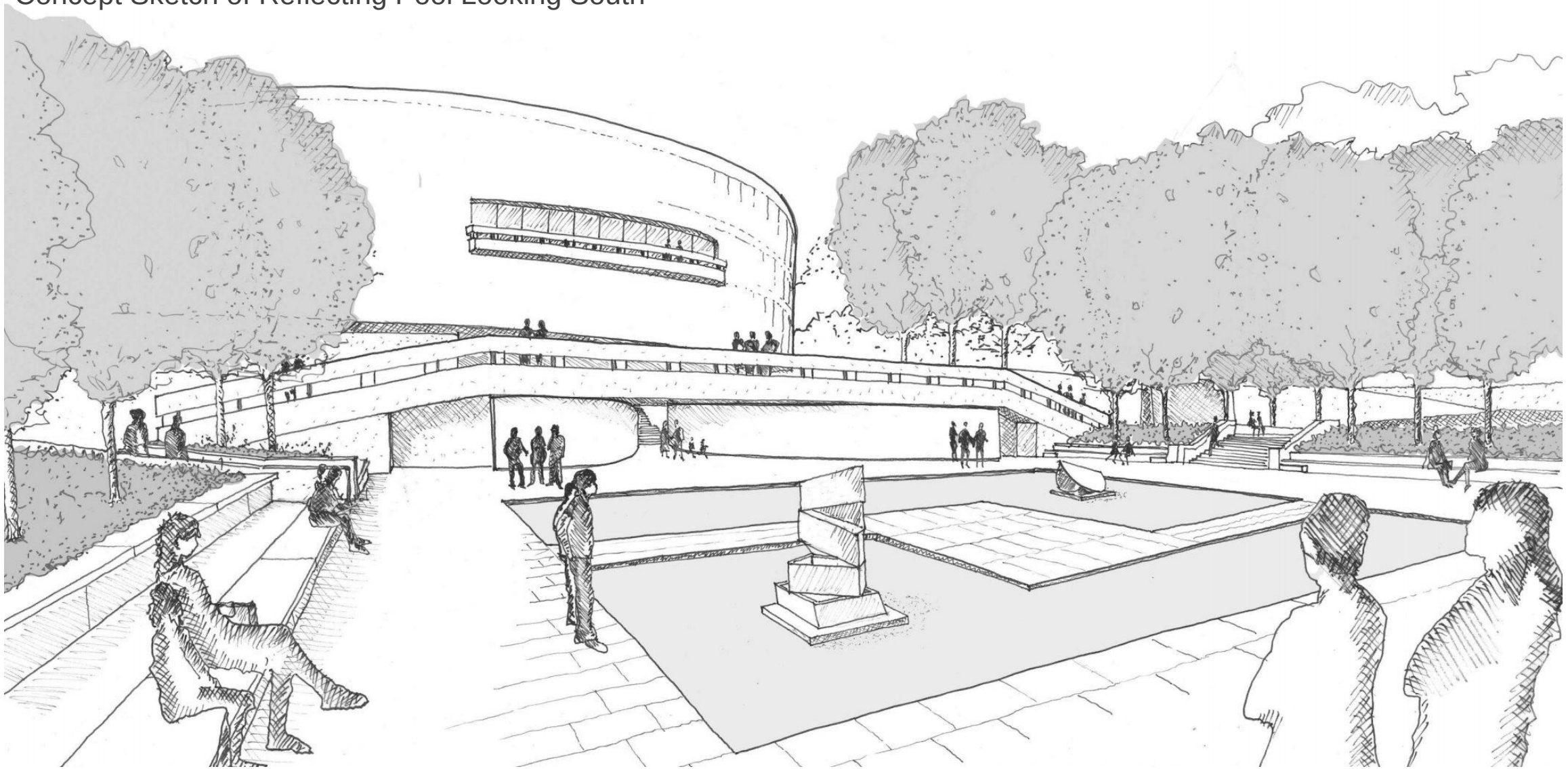




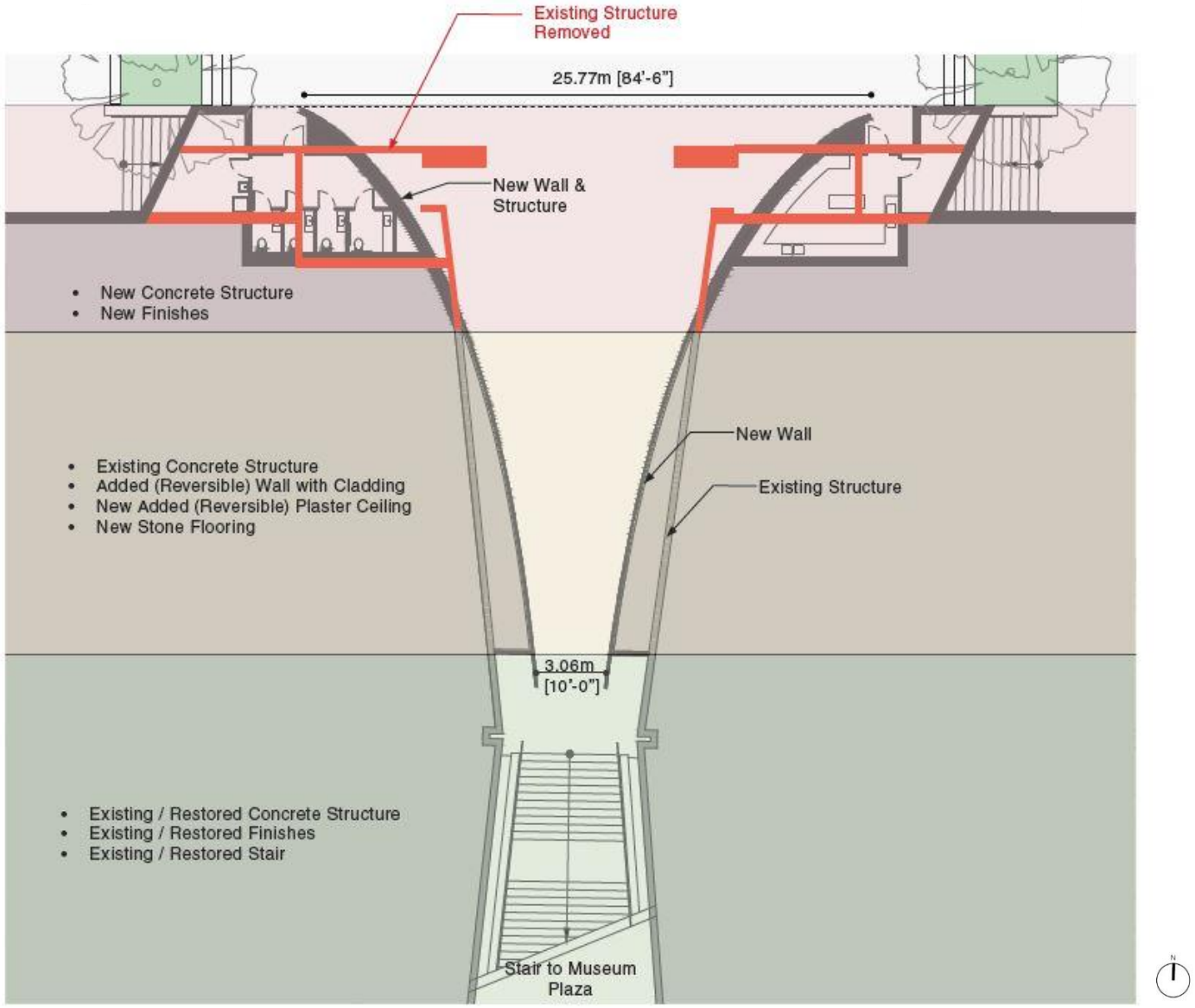


Entrance to Underground Passage

Concept Sketch of Reflecting Pool Looking South

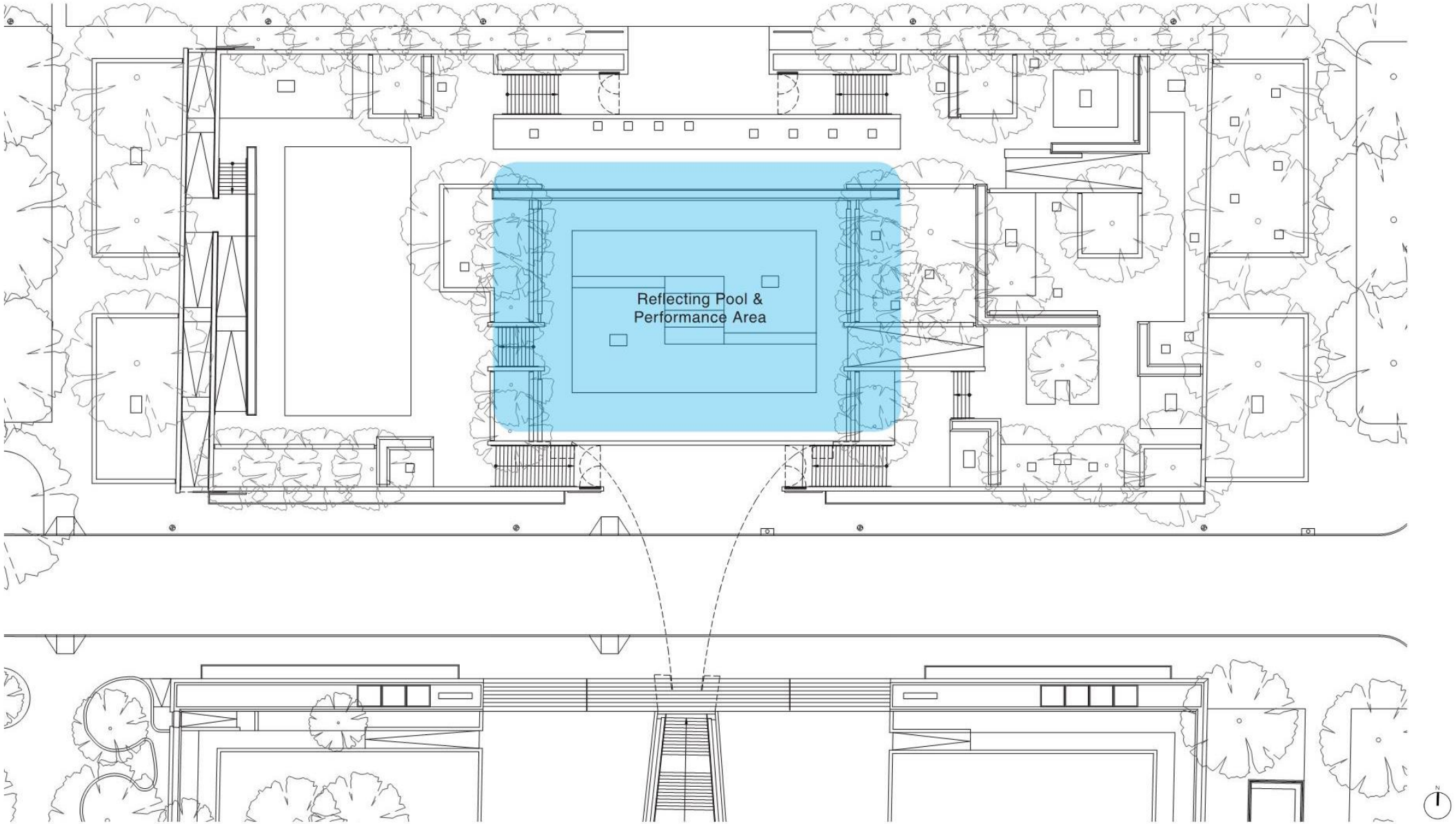


Underground Passage Layout



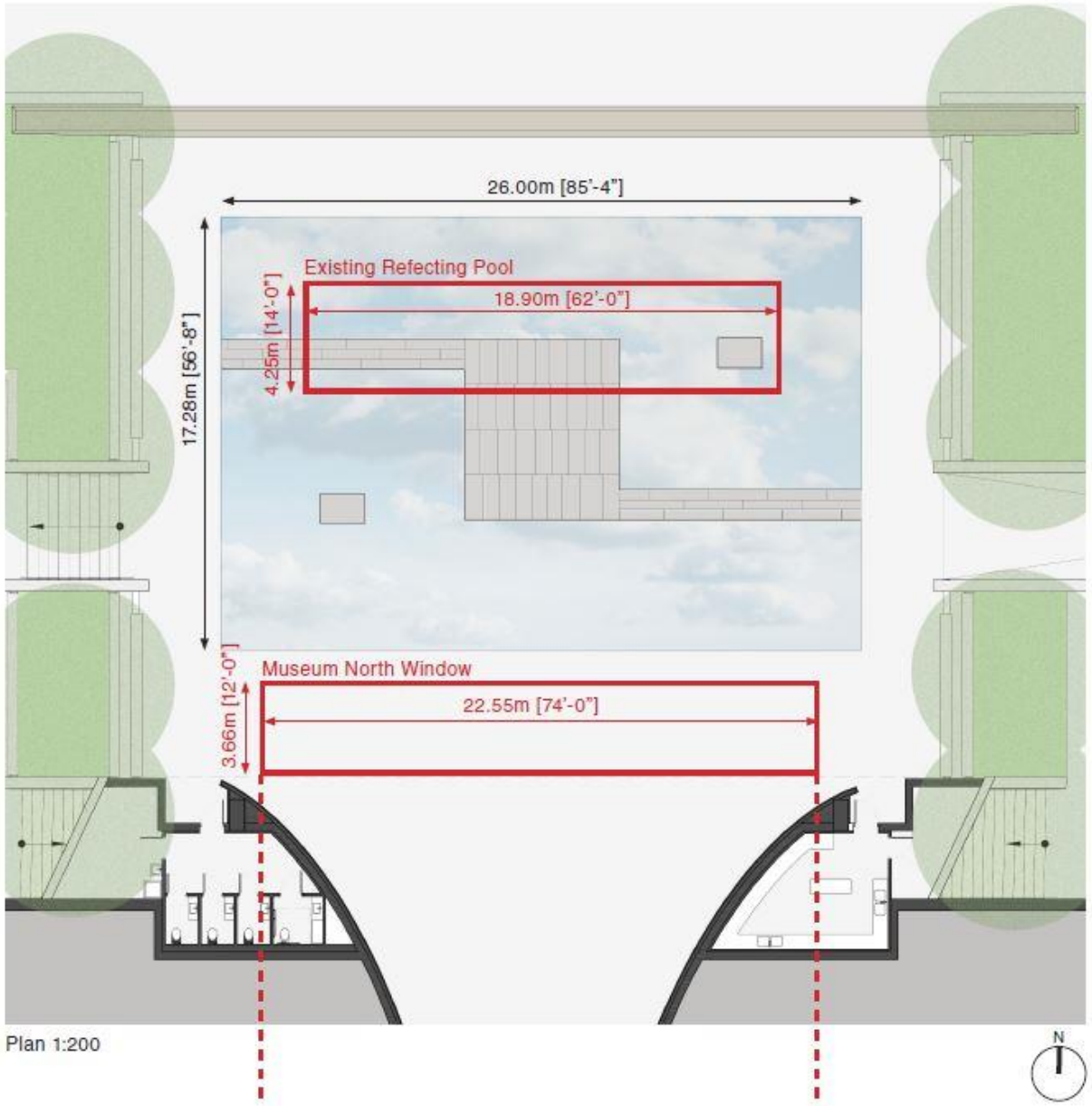
Underground Passage Plan, 1:200

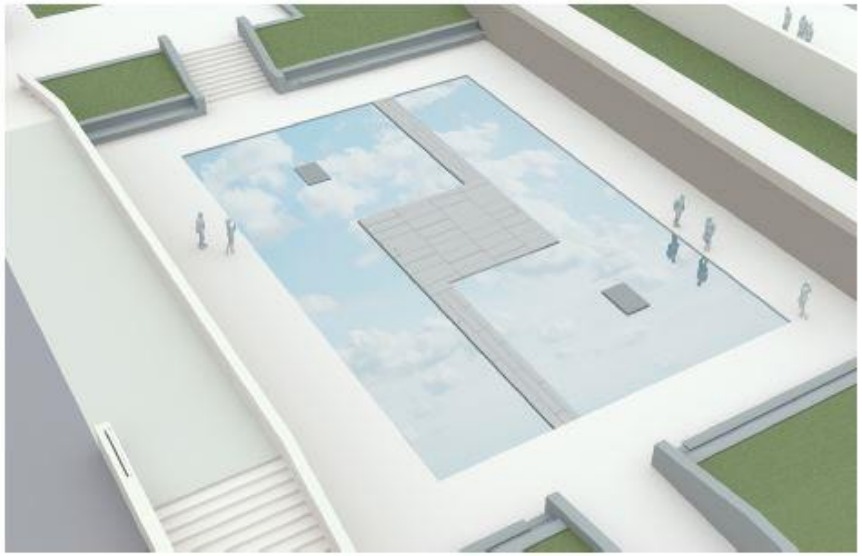
Reflecting Pool and Performance Area



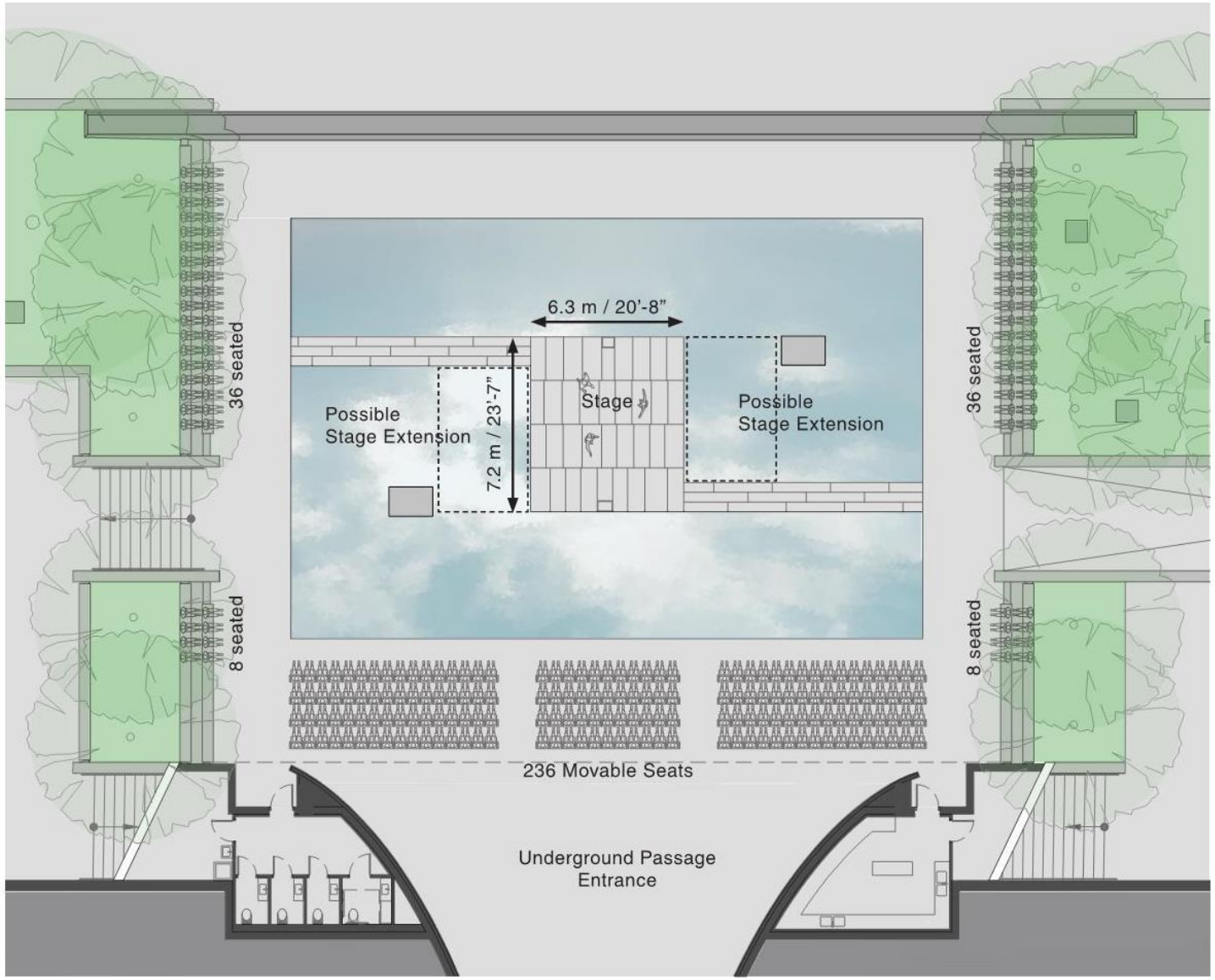
Preferred Alternative - Reflecting Pool Studies

Proposed Pool with Dimensions





Reflecting Pool and Performance Area

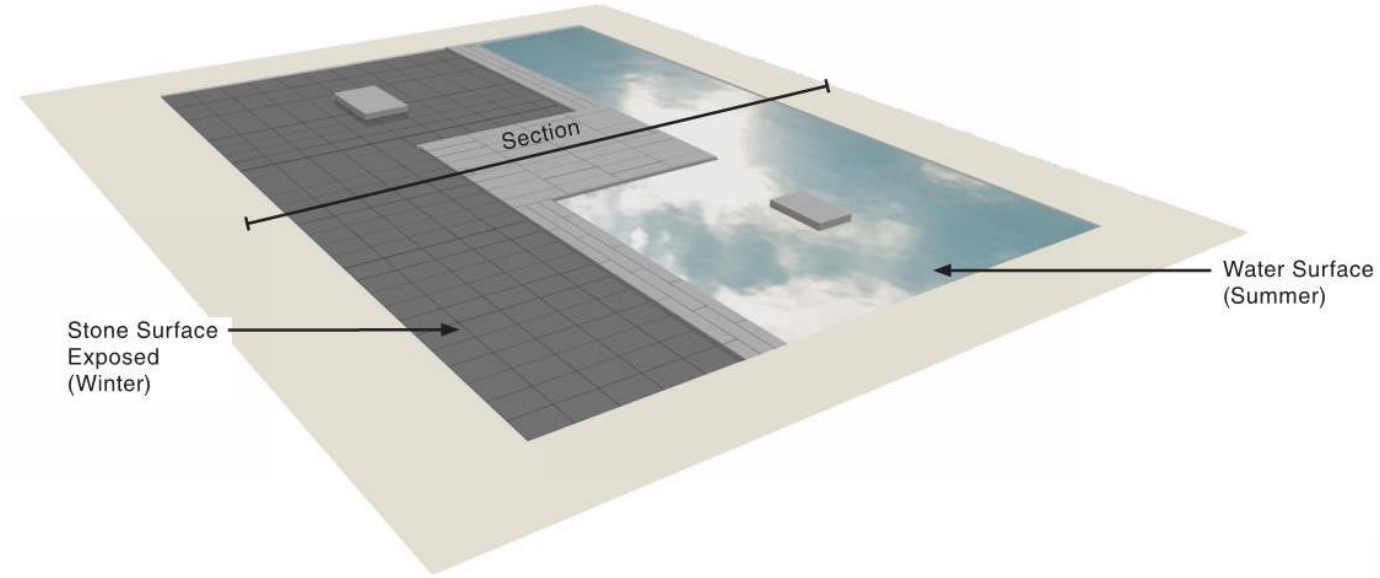


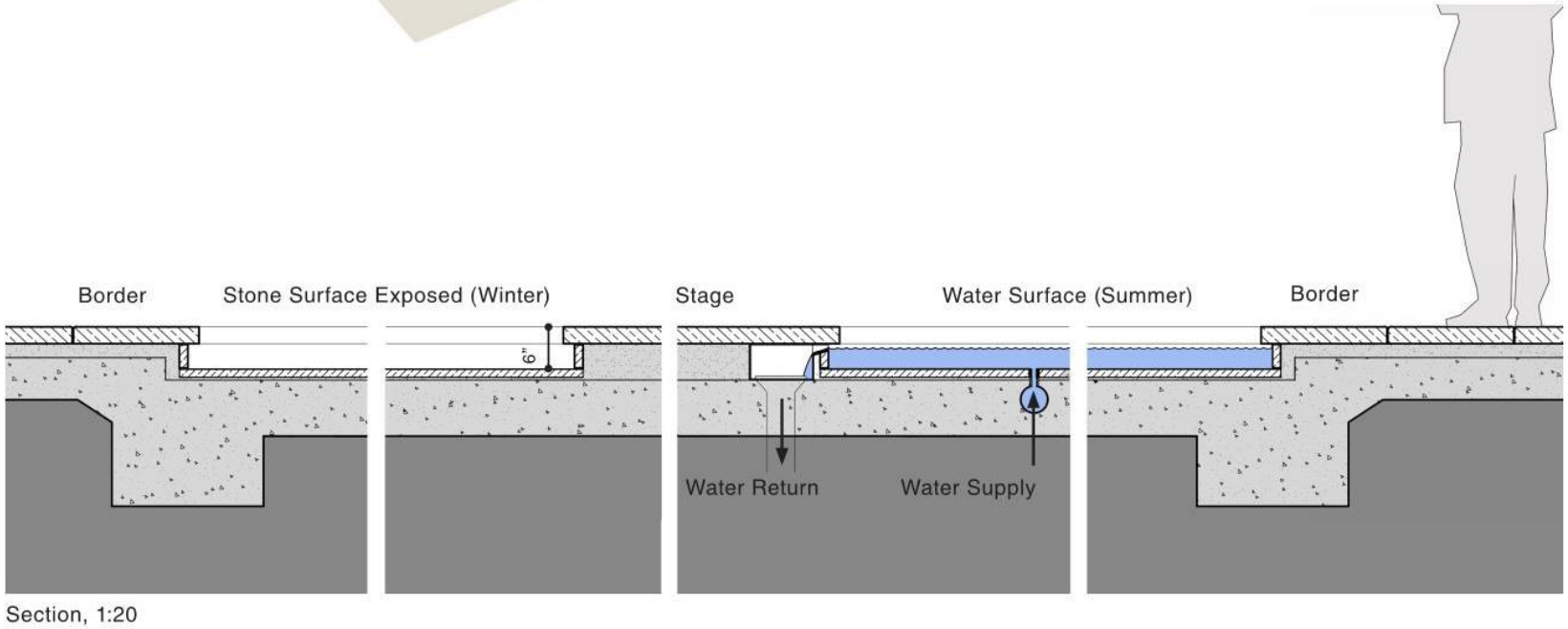
Preferred Plan of Reflecting Pool and Performance Area

Example of performance space with amphitheater seating

Example of Theater Performance

Reflecting Pool Detail – Seasonal Change

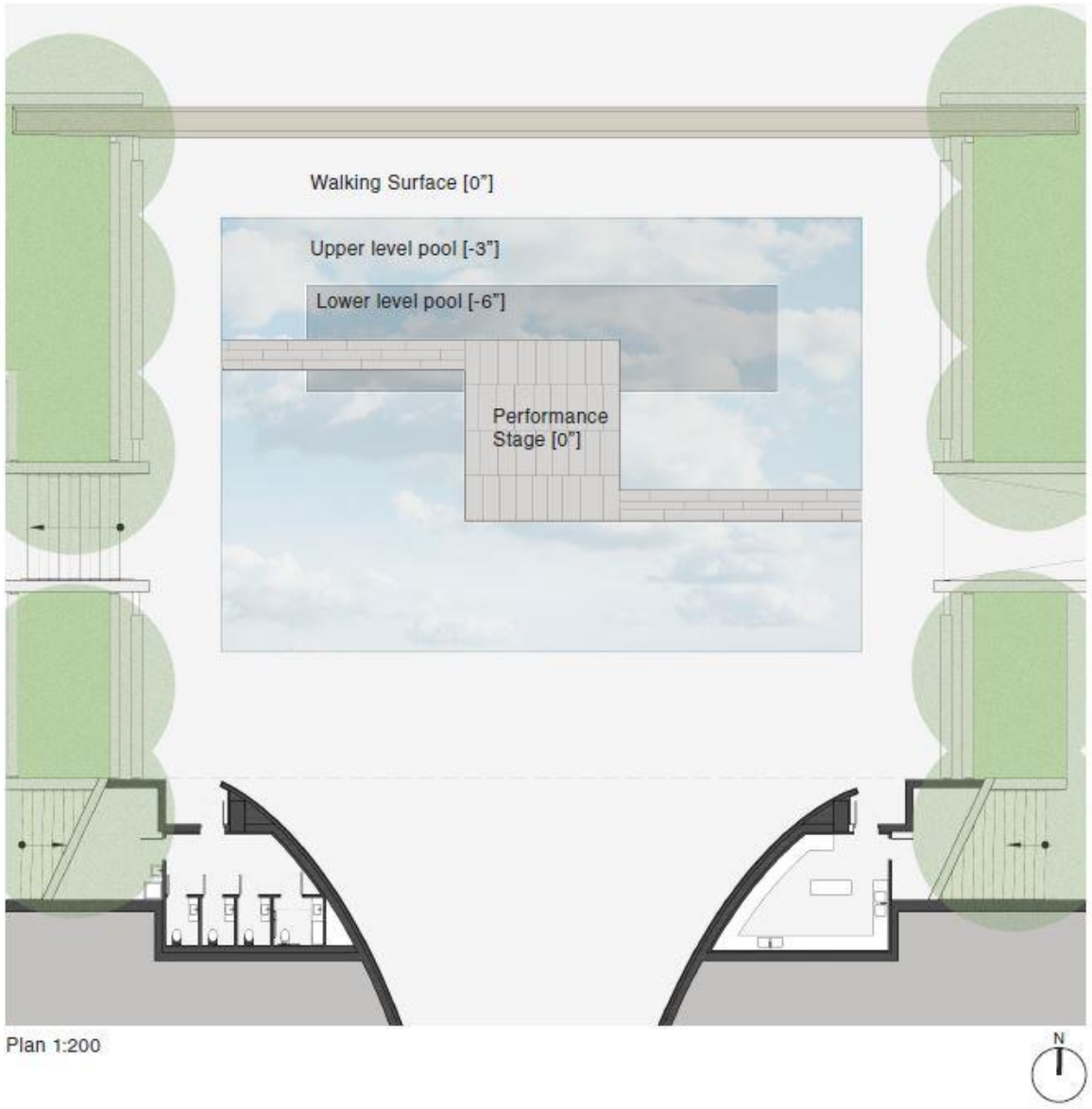




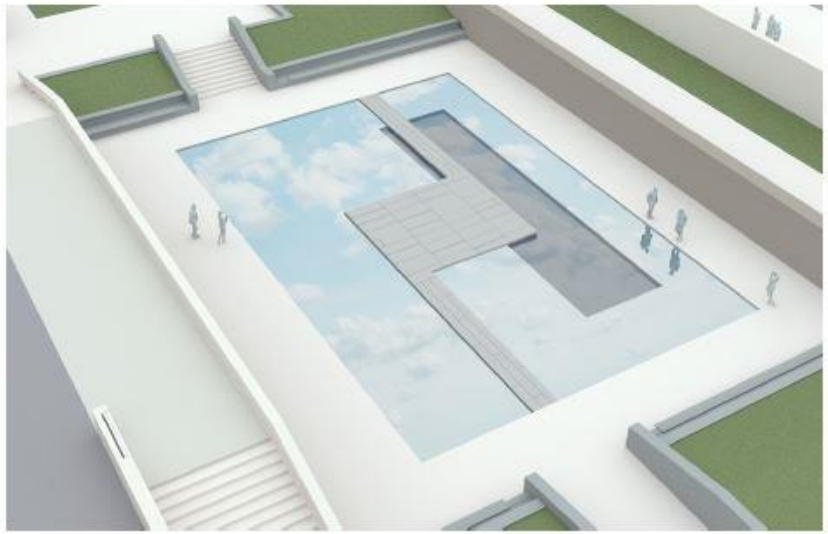
Section, 1:20

Alternative 1 - Reflecting Pool Studies

Bunshaft Pool Integration and Stage

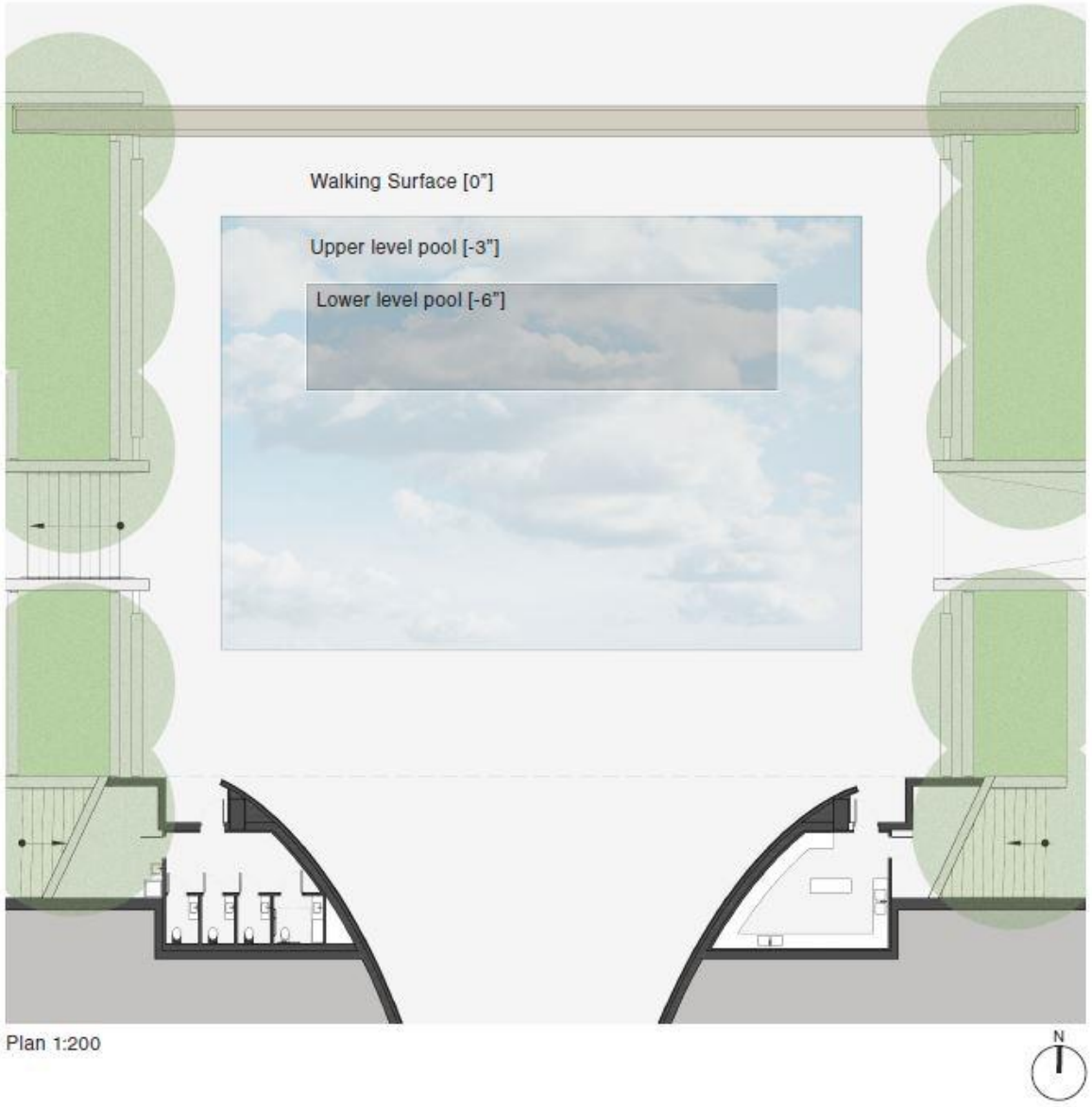


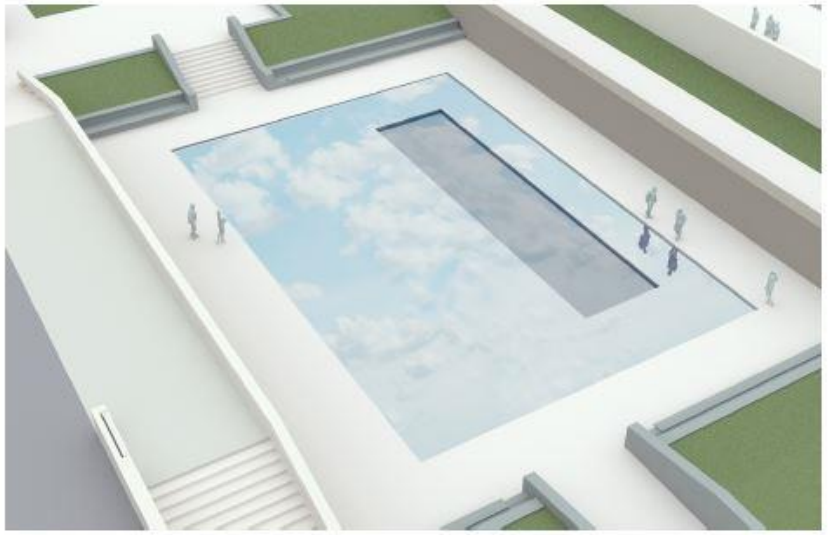
Plan 1:200



Alternative 2 - Reflecting Pool Studies

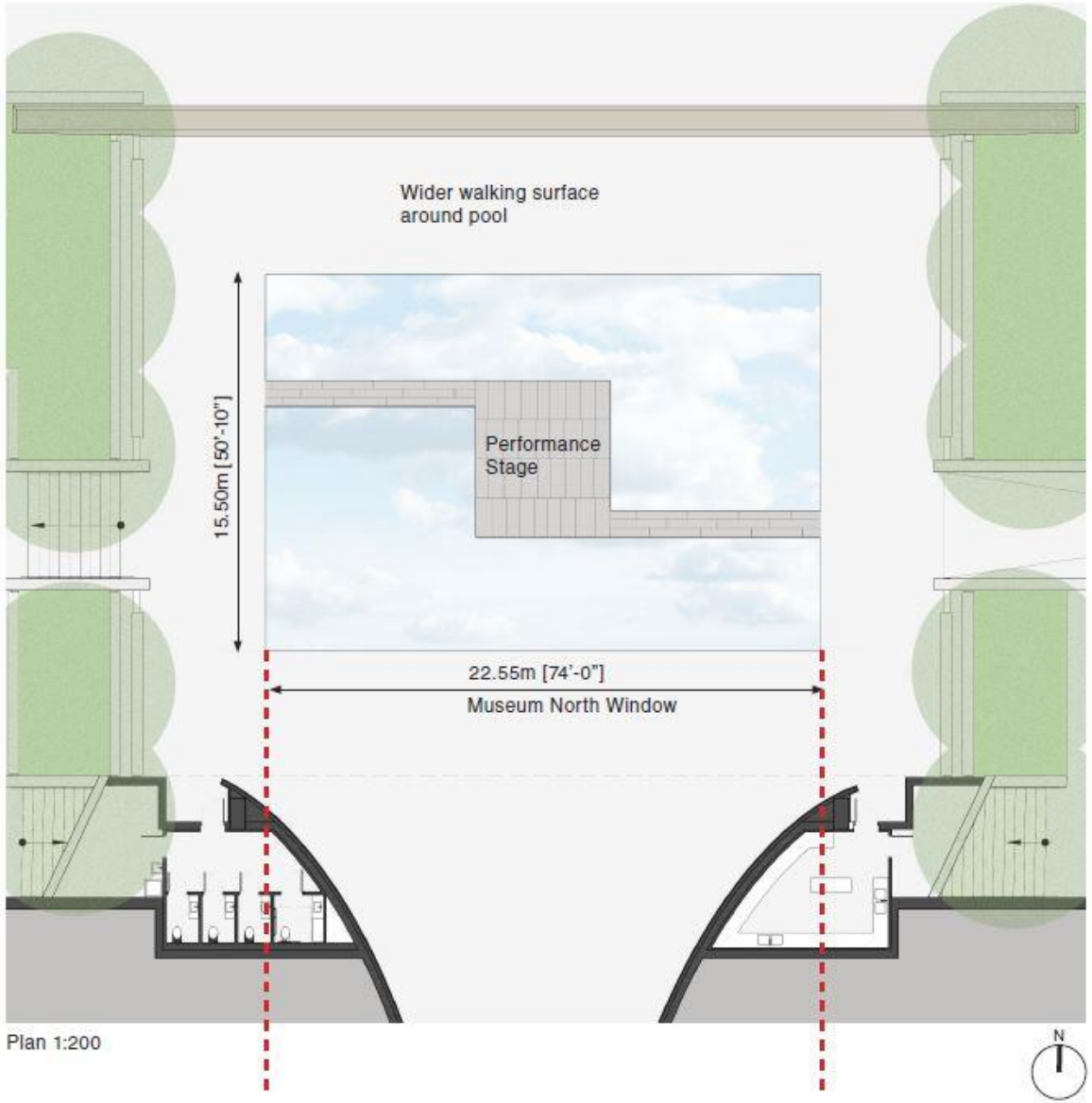
Bunshaft Pool Integration - No Stage

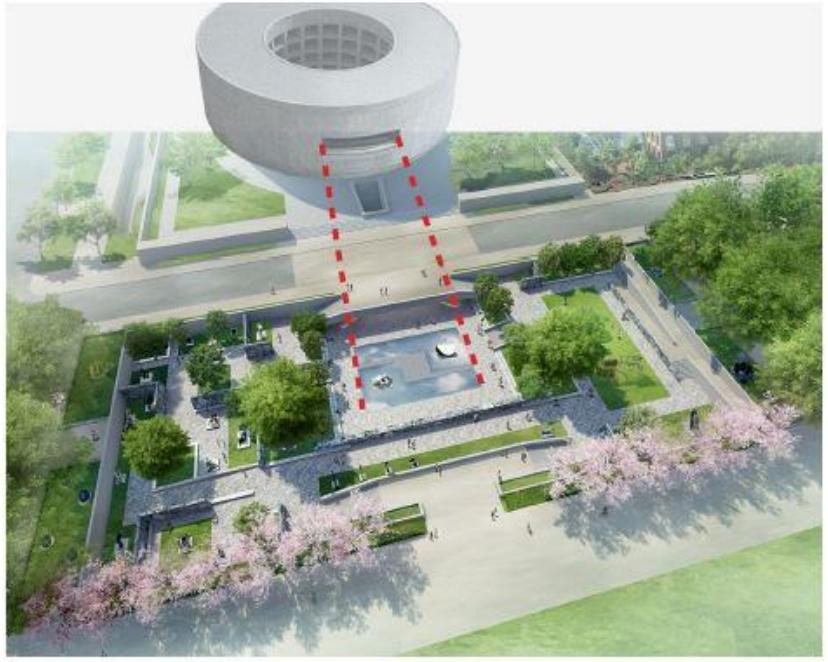




Alternative 3 – Reflecting Pool Studies

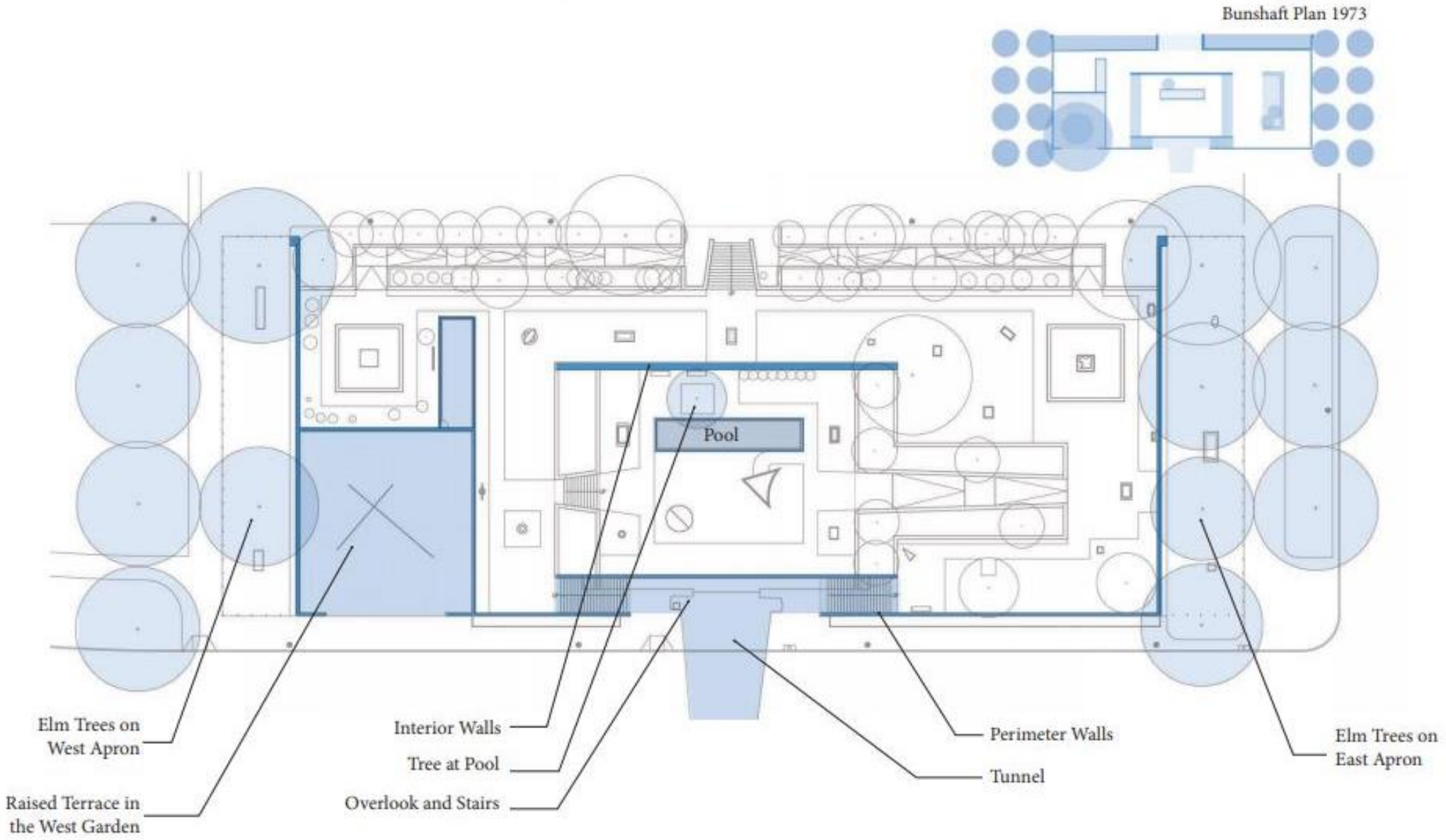
Pool Sized to Balcony Window





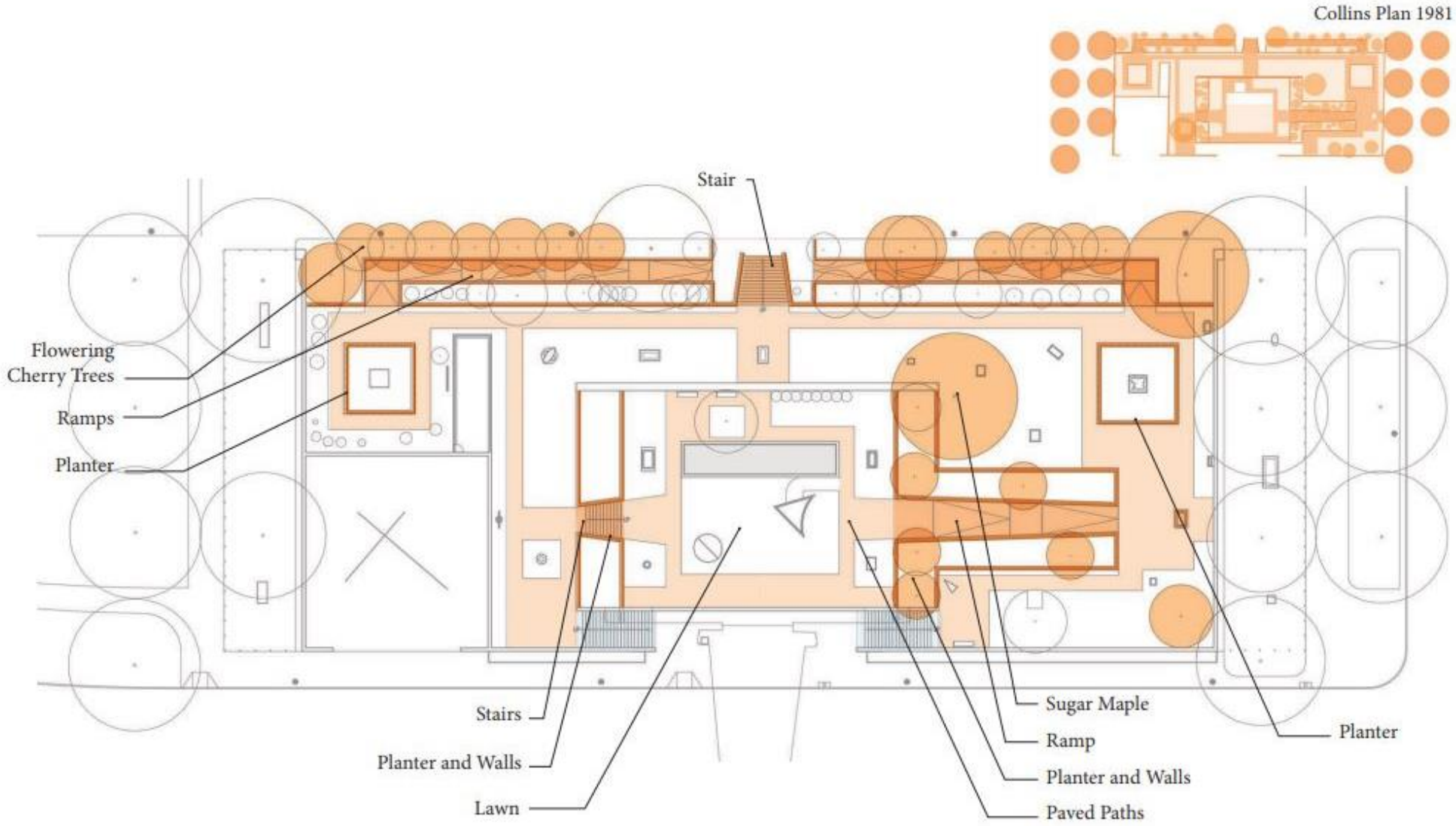
Comparative Analysis of Garden Evolution

Bunshaft Plan 1974: Extant Original Elements



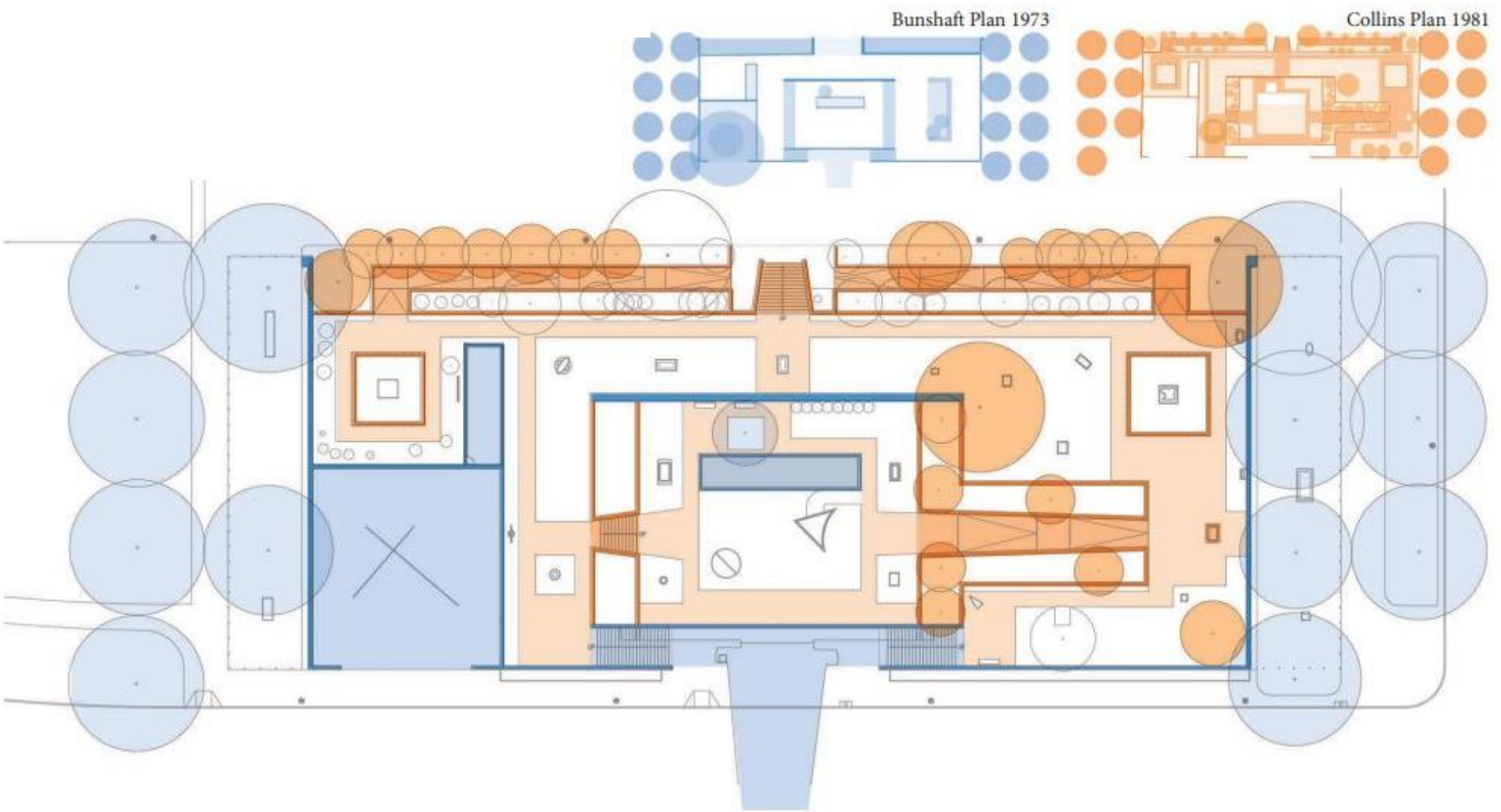
Comparative Analysis of Garden Evolution

Collins Plan 1981: Extant Collins Elements



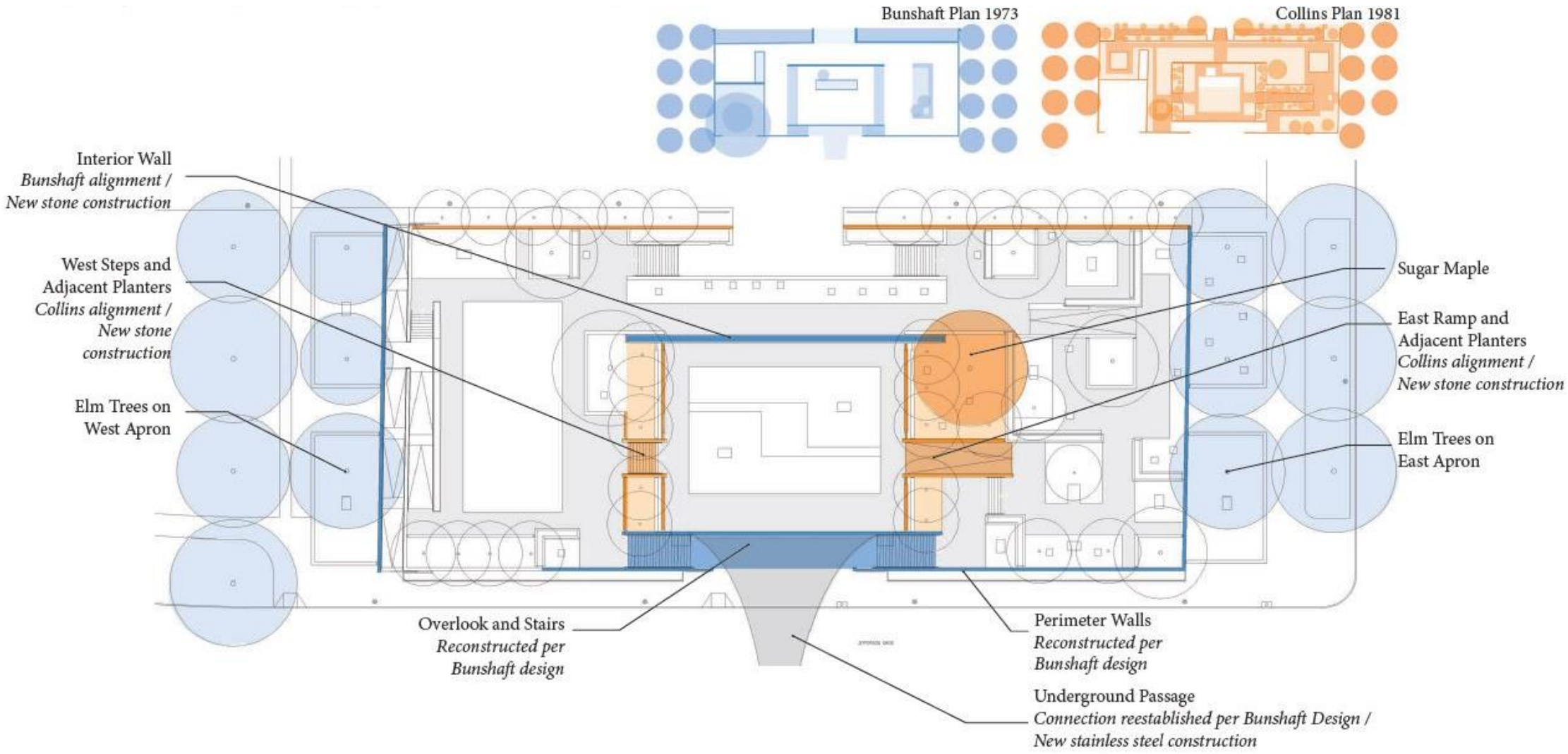
Comparative Analysis of Garden Evolution

Extant Bunshaft and Collins Elements Combined

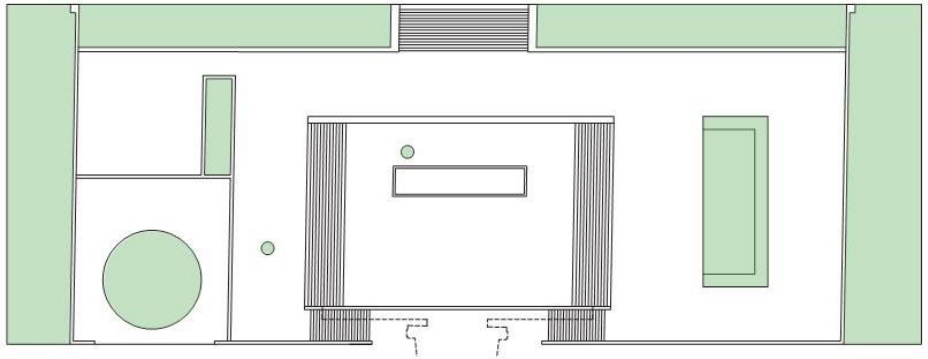


Comparative Analysis of Garden Evolution

Overlay on Proposed Sugimoto Garden Design

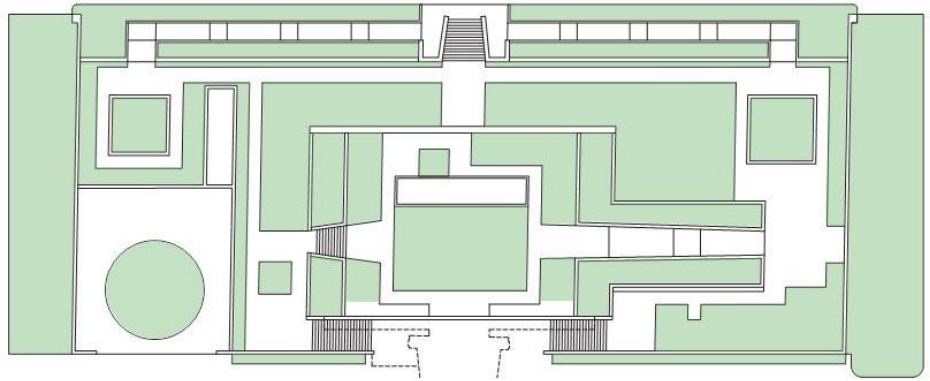


Cumulative Planting and Paving Changes



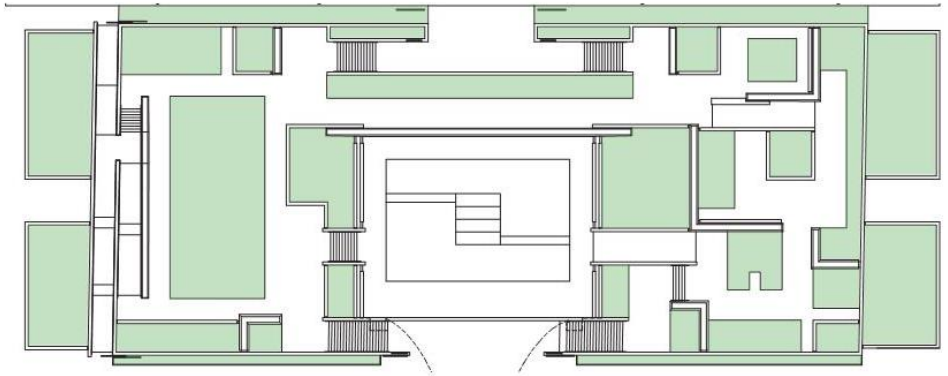
1972

Bunshaft Landscape Design 1972:
30% Landscape / 70% Paving & Gravel



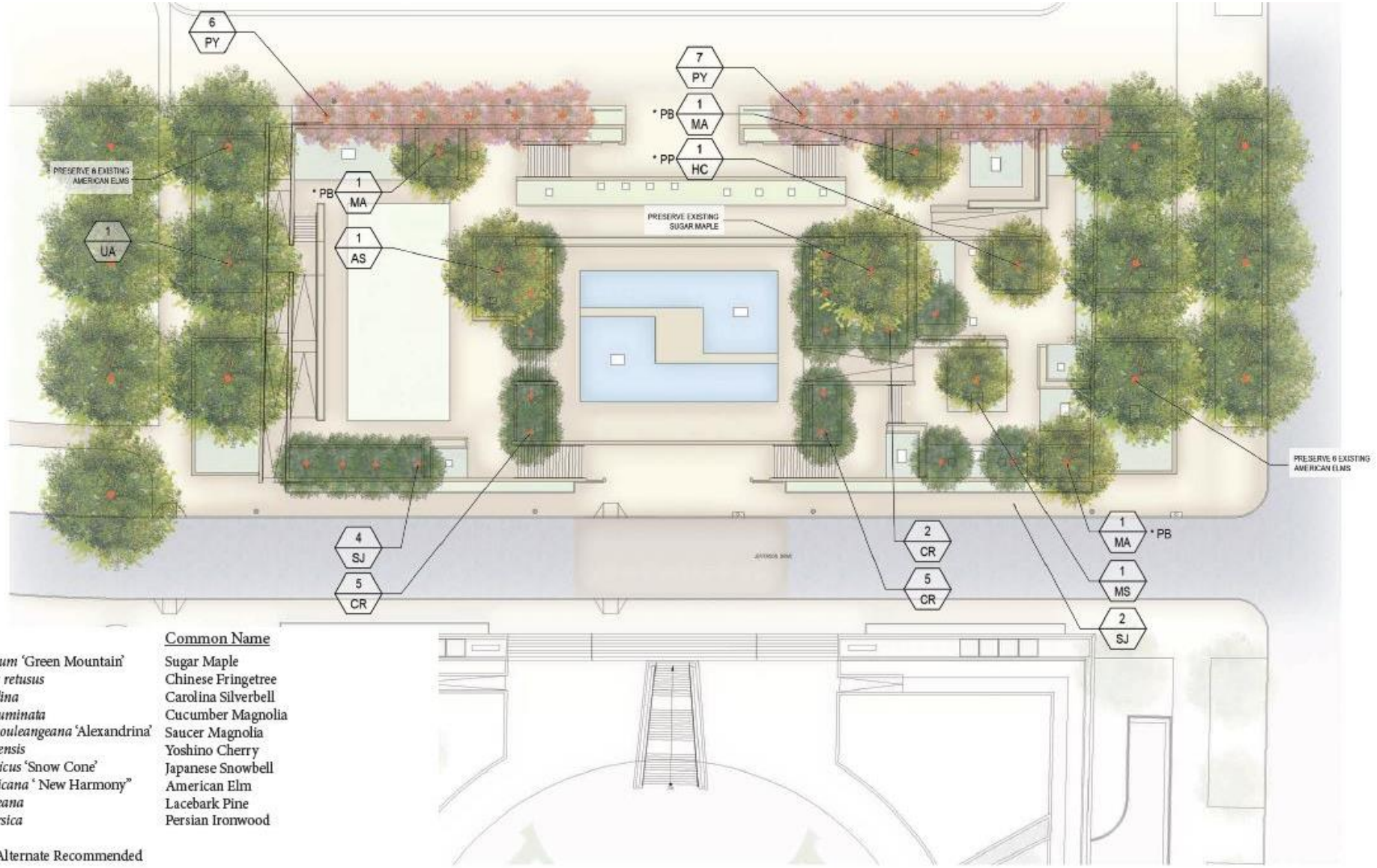
1981

Lester Collins Design 1981:
59% Landscape / 41% Paving



39% Landscape / 61% Paving

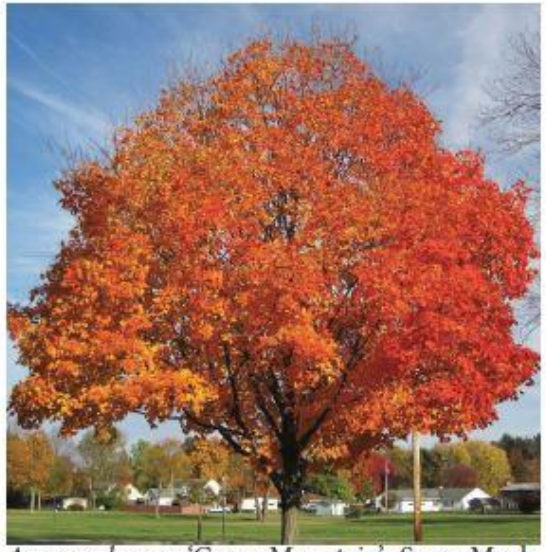
Planting Plan - Trees



Key	Species	Common Name
AS	*Acer saccharum* 'Green Mountain'	Sugar Maple
CR	*Chionanthus retusus*	Chinese Fringetree
HC	*Halesia carolina*	Carolina Silverbell
MA	*Magnolia acuminata*	Cucumber Magnolia
MS	*Magnolia x souleangeana* 'Alexandrina'	Saucer Magnolia
PY	*Prunus yeodensis*	Yoshino Cherry
SJ	*Styrax japonicus* 'Snow Cone'	Japanese Snowbell
UA	*Ulmus americana* ' New Harmony"	American Elm
PB	**Pinus bungeana*	Lacebark Pine
PP	**Parrotia persica*	Persian Ironwood

* Indicates Alternate Recommended Species

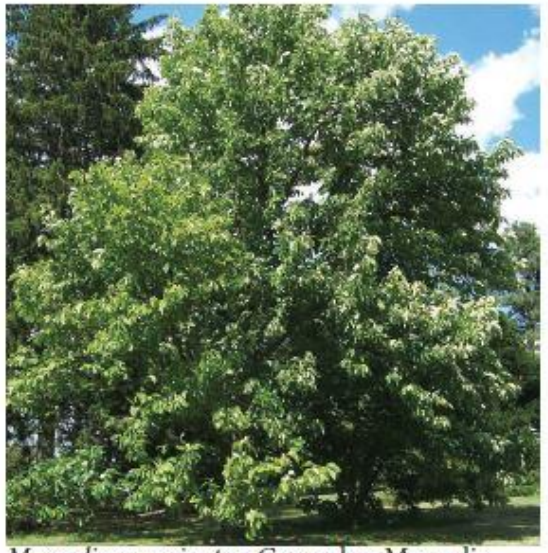
Species Palette- Trees



Acer saccharum 'Green Mountain'- Sugar Maple

Chionanthus retusus - Chinese Fringetree

Halesia carolina - Carolina Silverbell



Magnolia acuminata - Cucumber Magnolia

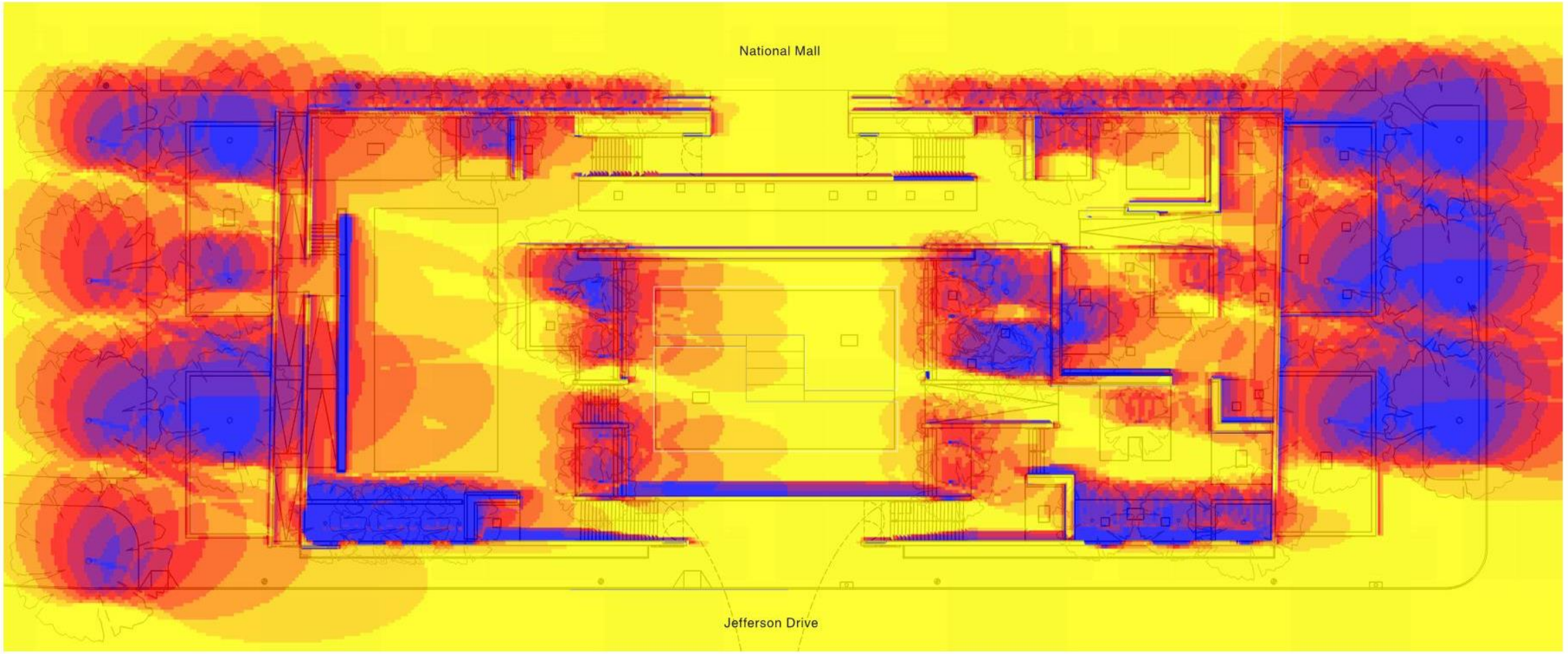
Prunus yeodensis - Yoshino Cherry

Styrax japonicus "Snow Cone"
- Japanese Snowbell

Magnolia x soulangeana 'Alexandrina'
- Saucer Magnolia

Parrotia persica - Persian Ironwood

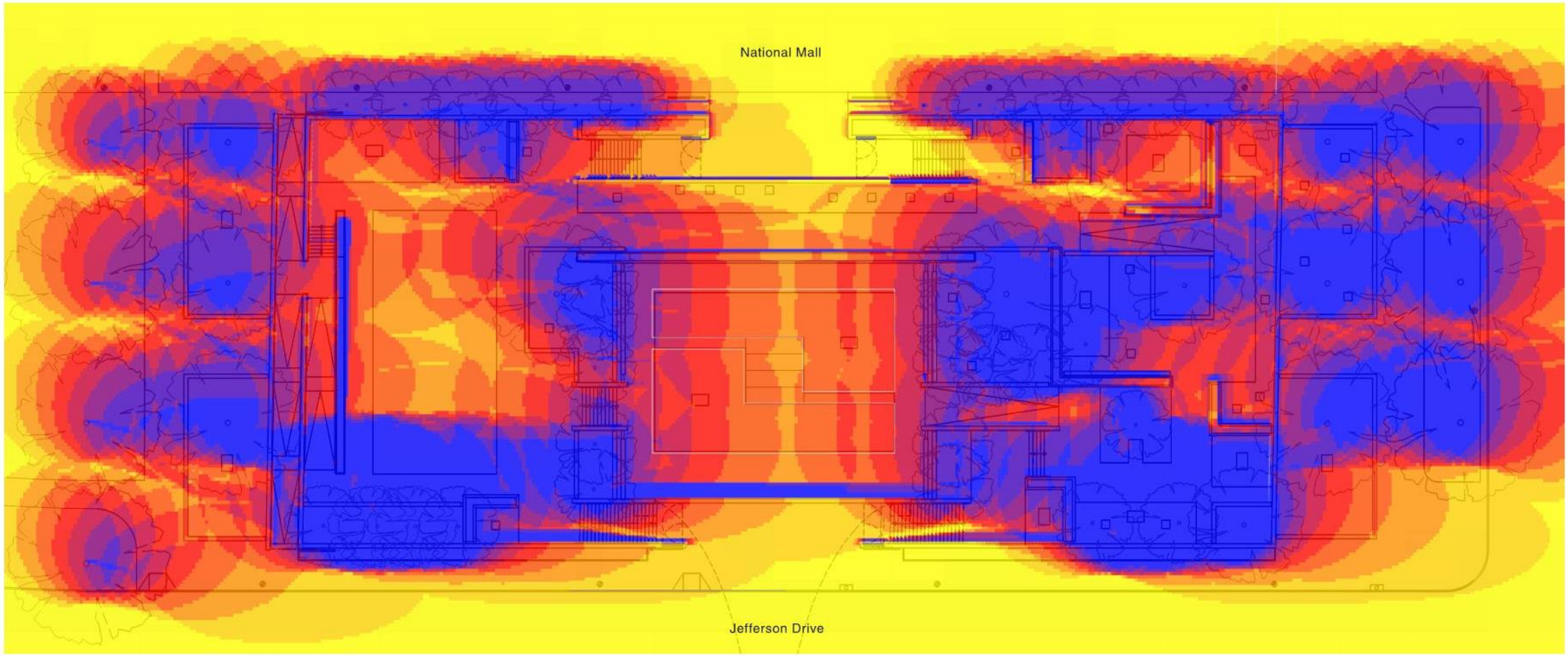
Shade Study at Installation



Area exposed to sun:

Never max. 1h max. 2h max. 3h max. 4h max. 5h max. 6h max. 7h Always

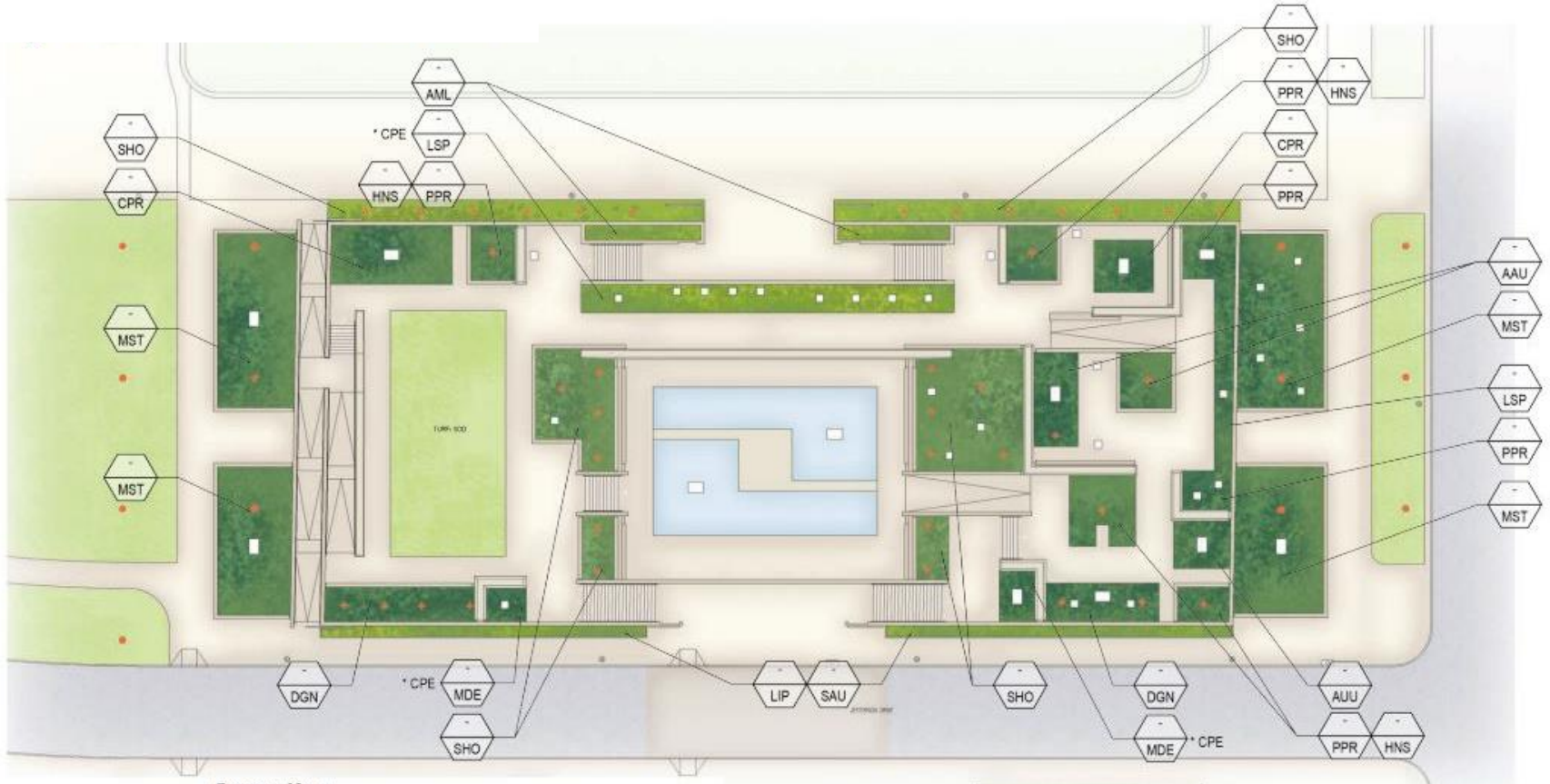
Shade Study at Maturity



Area exposed to sun:

Never max. 1h max. 2h max. 3h max. 4h max. 5h max. 6h max. 7h Always

Planting Plan – Ground Plane



Key	Species	Common Name
AUU	*Arctostaphylos uva-ursi*	Bear Berry
PPR	*Pachysandra procumbens*	Allegheny Spurge
DGN	*Deutzia gracilis* 'Nikko'	Slender Deutzia
HNS	*Hyacinthoides non-scripta* 'Alba'	White Wood Hyacinth
SHO	*Sarcococca hookeriana var. humilis* 'Sarsid2'	Fragrant Mountain Sweetbox
CPR	*Cotoneaster procumbens* 'Little Dipper'	Cotoneaster 'Little Dipper'
AML	*Aronia melanocarpa* 'Low-scape Mound'	Chokeberry
LSP	*Liriope muscari* ' Isabella'	Dwarf Isabella Liriope
MDE	*Macrobiota decussata*	Syberian Cypress
MST	*Matteuccia struthiopteris*	Ostrich Fern
LIP	*Lavendula x intermedia* 'Phenomenal'	Lavender
SAU	*Sesleria autumnalis*	Autumn Moor Grass
CPE	* *Carex pennsylvanica*	Oak Sedge

* Indicates alternative recommended species

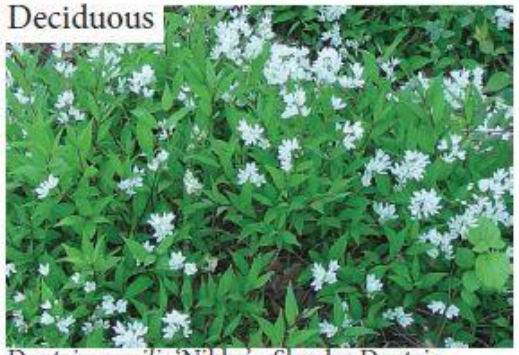
Species Palette – Ground Plane

Evergreen

Arctostaphylos uva-ursi - Bear Berry

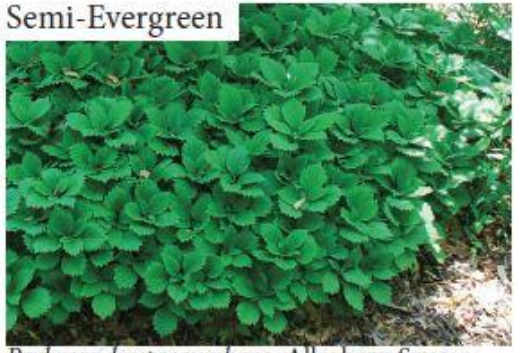
Macrobiota decussata - Siberian Cypress

Deciduous



Deutzia gracilis 'Nikko' - Slender Deutzia

Semi-Evergreen



Pachysandra procumbens- Allegheny Spurge

Sarcococca hookeriana - Sarcococca

Carex pennsylvanica - Oak Sedge

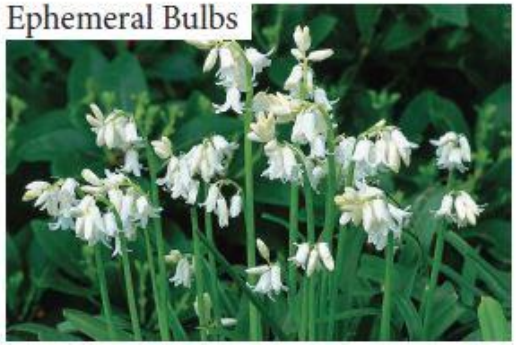
Aronia melanocarpa 'Low-scape Mound'

Cotoneaster procumbens 'Little Dipper'

Liriope muscari ' Isabella' - Fine Leaf Liriope

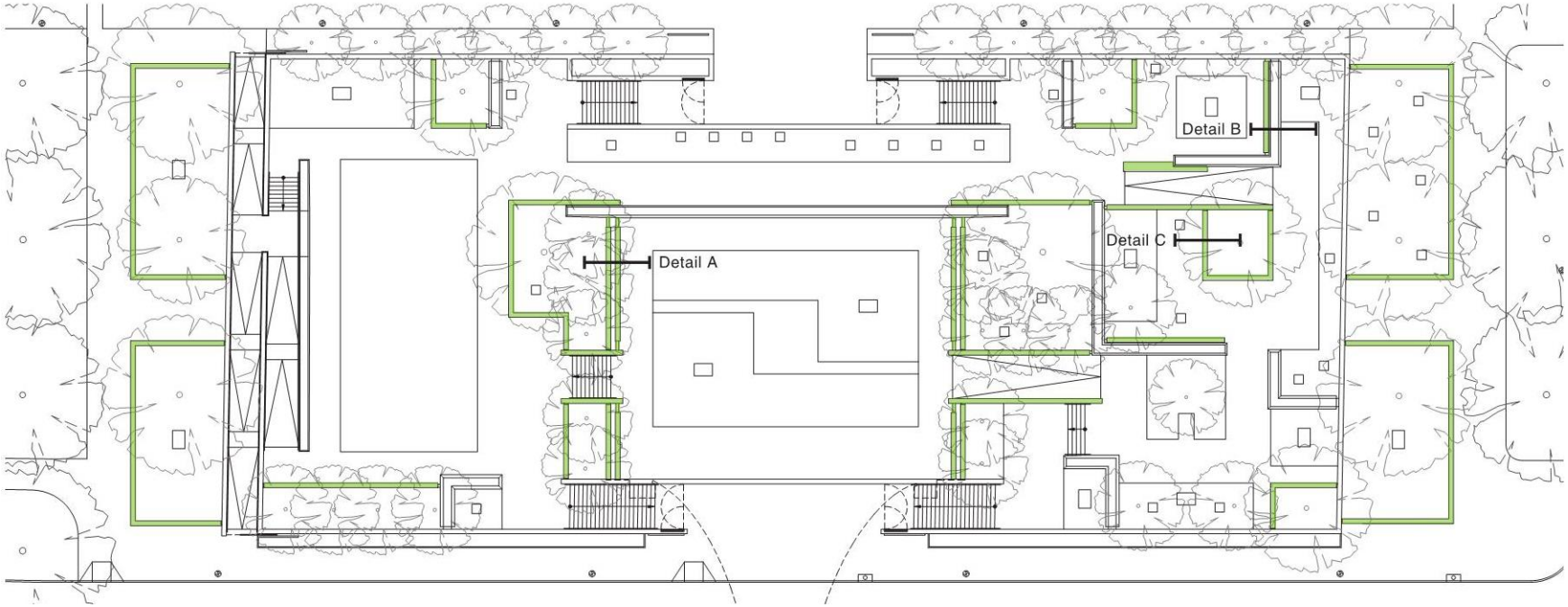
Matteuccia struthiopteris - Ostrich Fern

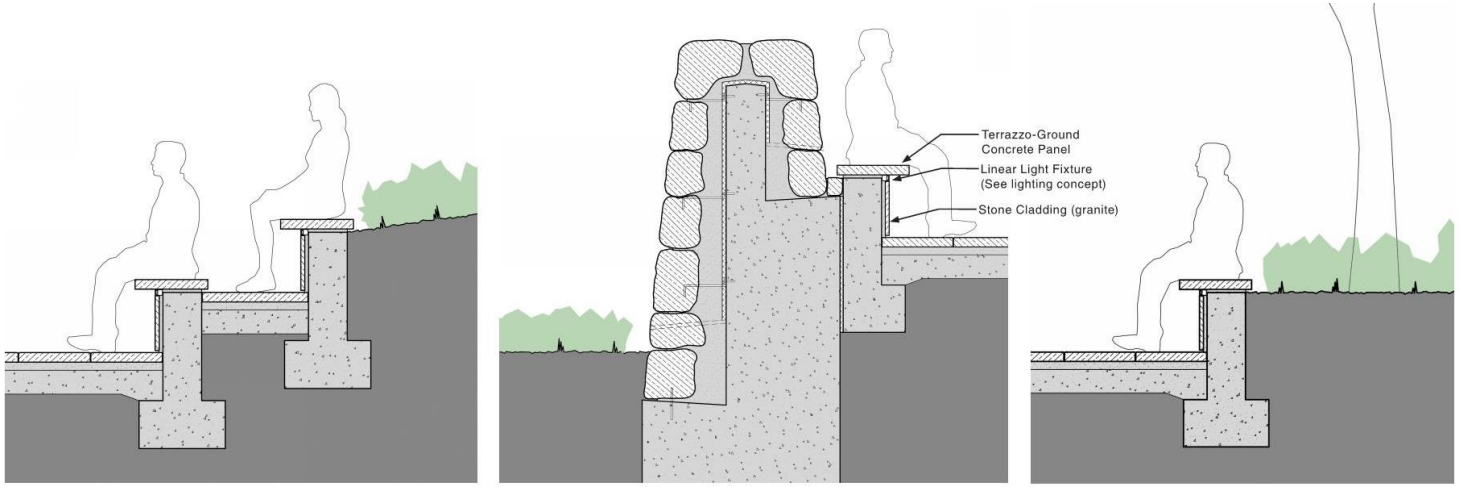
Ephemeral Bulbs



Hyacinthoides non-scripta 'Alba'
- White Wood Hyacinth

Planters and Benches



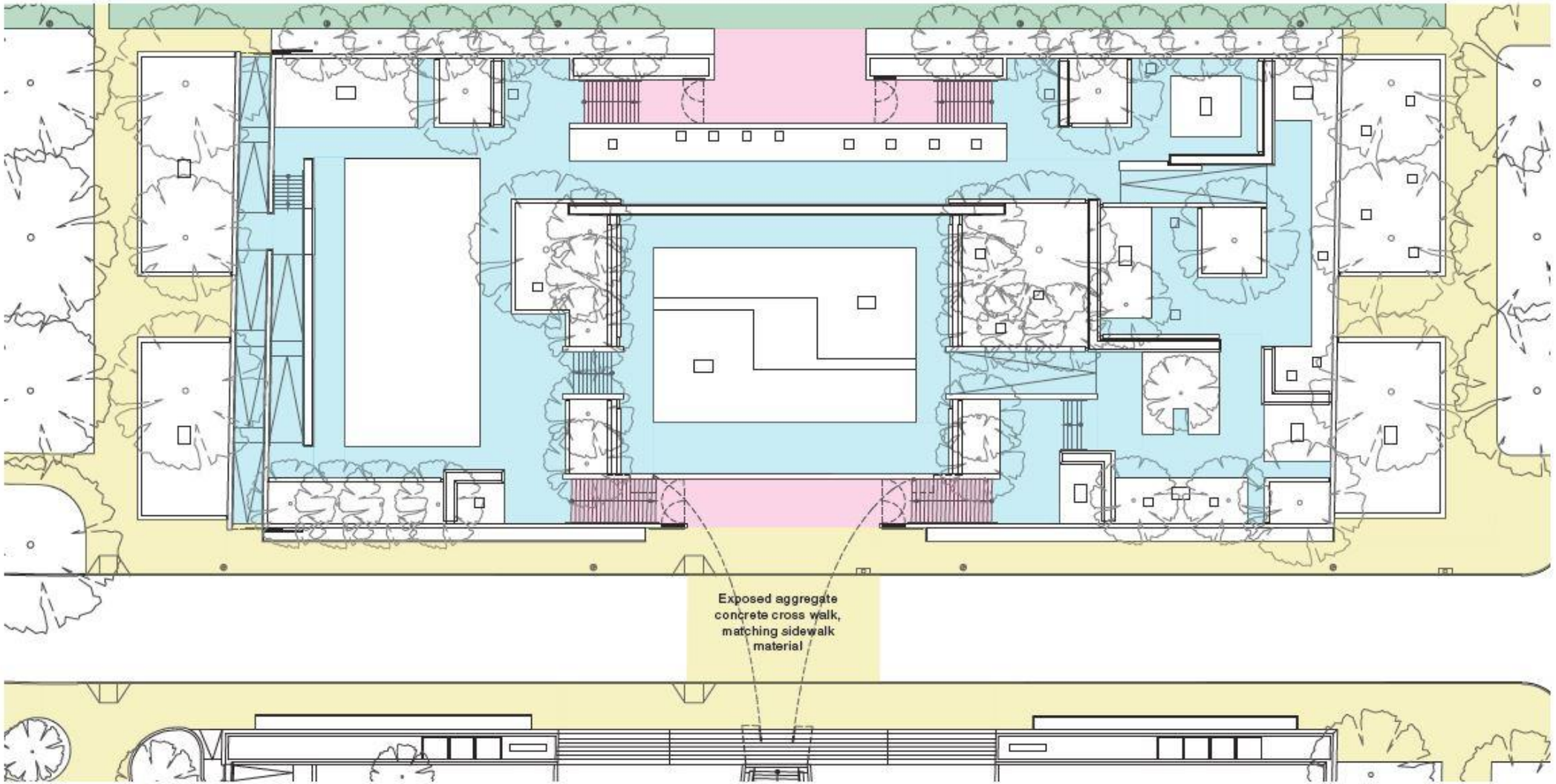


Detail A: Amphitheater bench (at water feature) 1:25

Detail B: Bench at stone wall (at elevation transition) 1:25

Detail C: Bench at raised planter border 1:25

Paving Plan


Exposed aggregate concrete cross walk, matching sidewalk material
Existing fine gravel (National Mall)
Exposed aggregate concrete sidewalks (Mostly existing)
Granite stone pavers and stair treads
Salvaged Bunshaft stair treads with matching pavers

Material Palette

Main Paving Area

Granite stone pavers.
To be used for main garden paving and all stairs / ramps within main paver surface.

Existing concrete walls

Existing walls will be restored, incorporating similar stone aggregate color and surface texture to original Bunshaft walls.

North and South Overlook Paving

Recycled "pink" granite stair treads, as salvaged from original Bunshaft garden (Currently stored at Smithsonian Institution warehouse). To be used for north and south overlooks. Re-installation of existing stair treads combined with new matching "pink" granite.

New Stone Walls

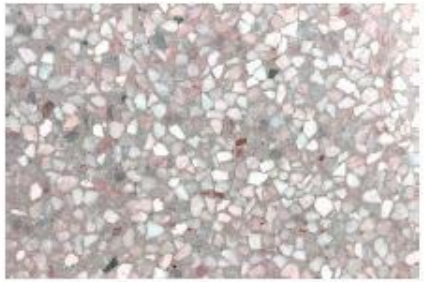
Natural bolder-shaped granite stone.

East, West & South Perimeter Paving

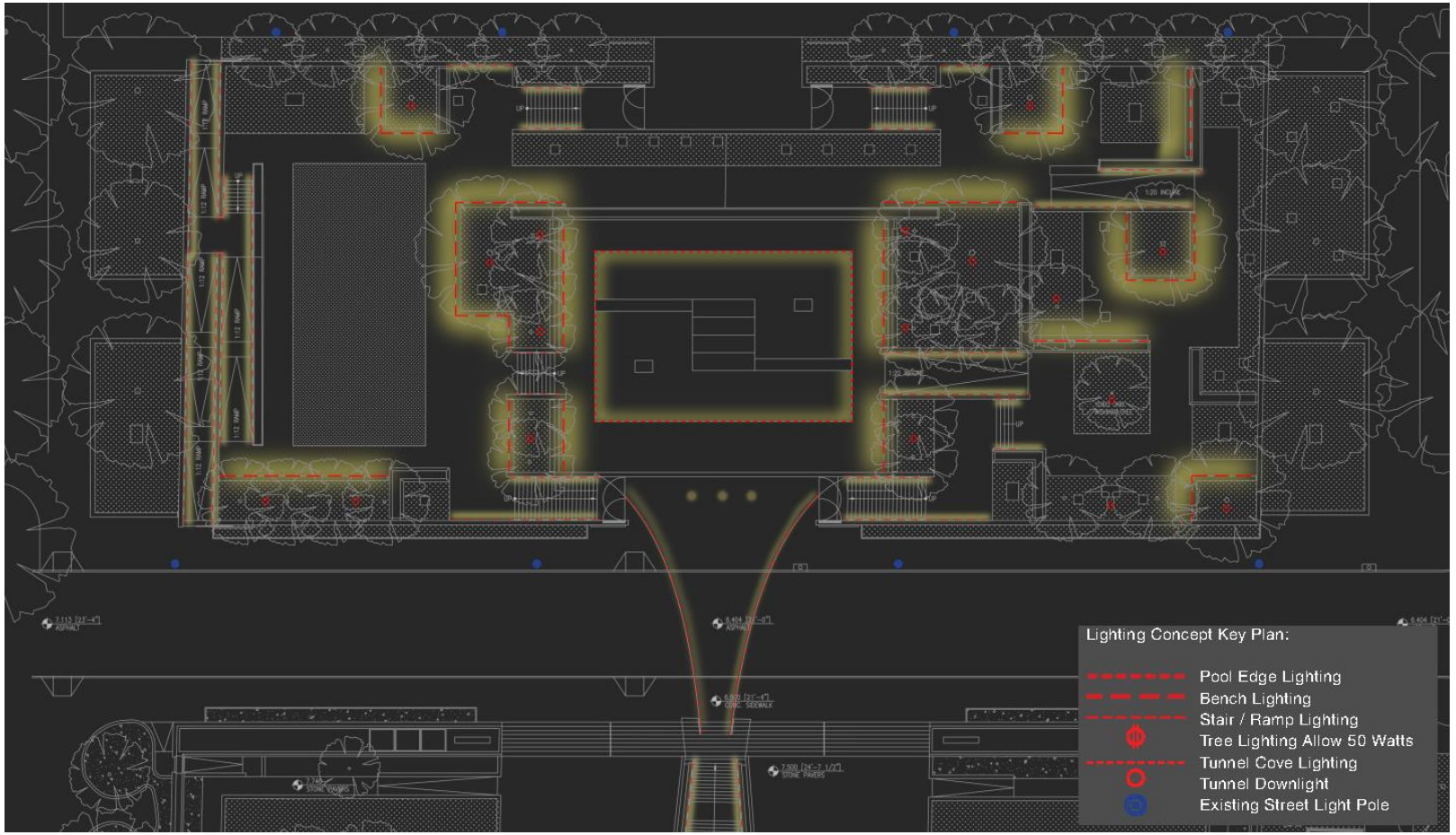
Existing exposed aggregate concrete sidewalk (Jefferson Drive, 7th Street), to be restored. Some additions along the east and west apron.
New cross walk on Jefferson Drive.

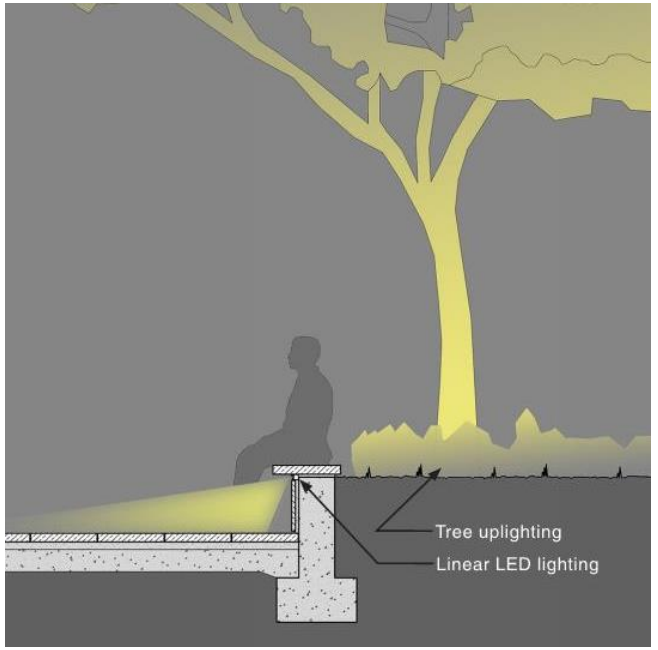
Benches

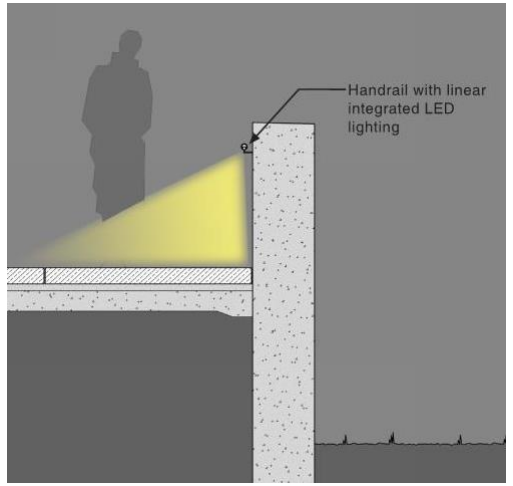
Terrazzo-ground concrete panels, using similar stone aggregate to the original Bunshaft perimeter walls.



Lighting Concepts







Concept Design

Comments or Questions

HIRSHHORN MUSEUM

Smithsonian

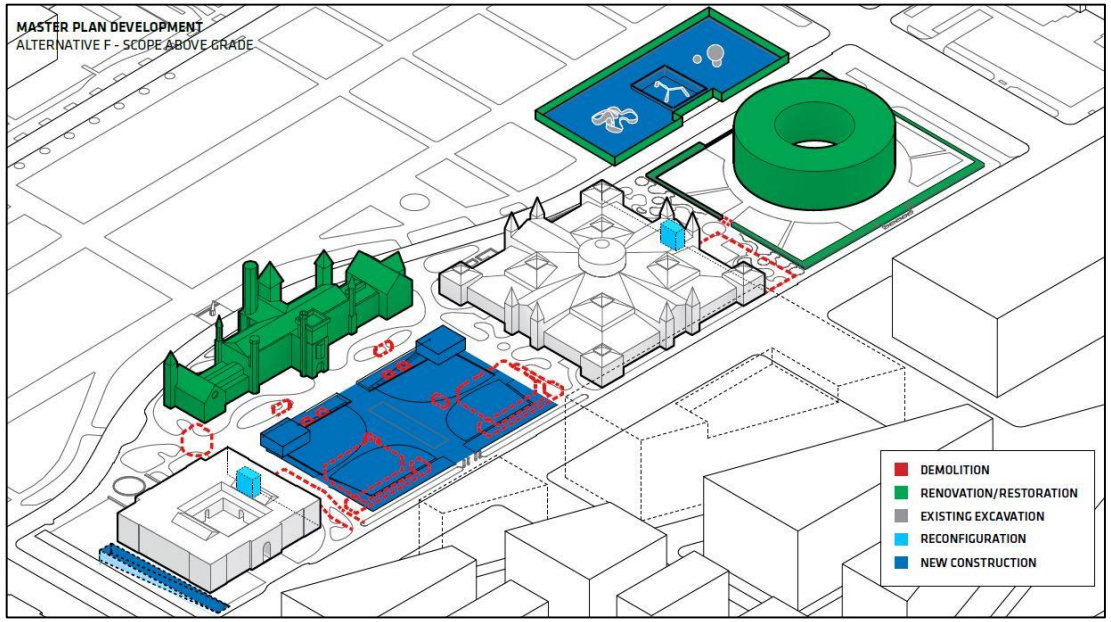
Section 106 Consultation – Next Steps

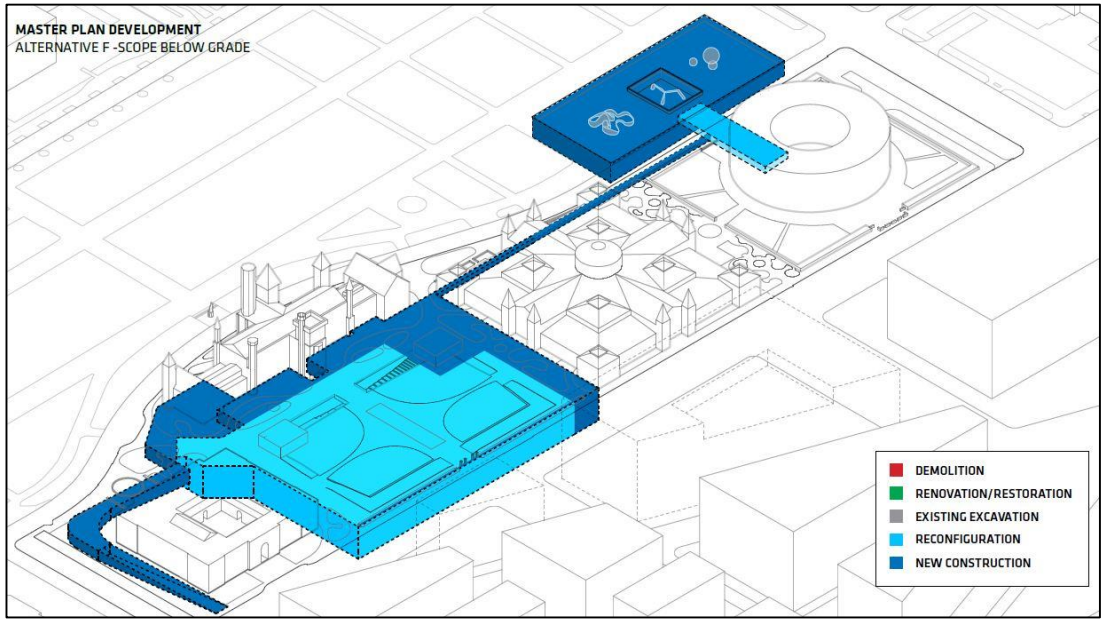
Carly Bond, Smithsonian Facilities

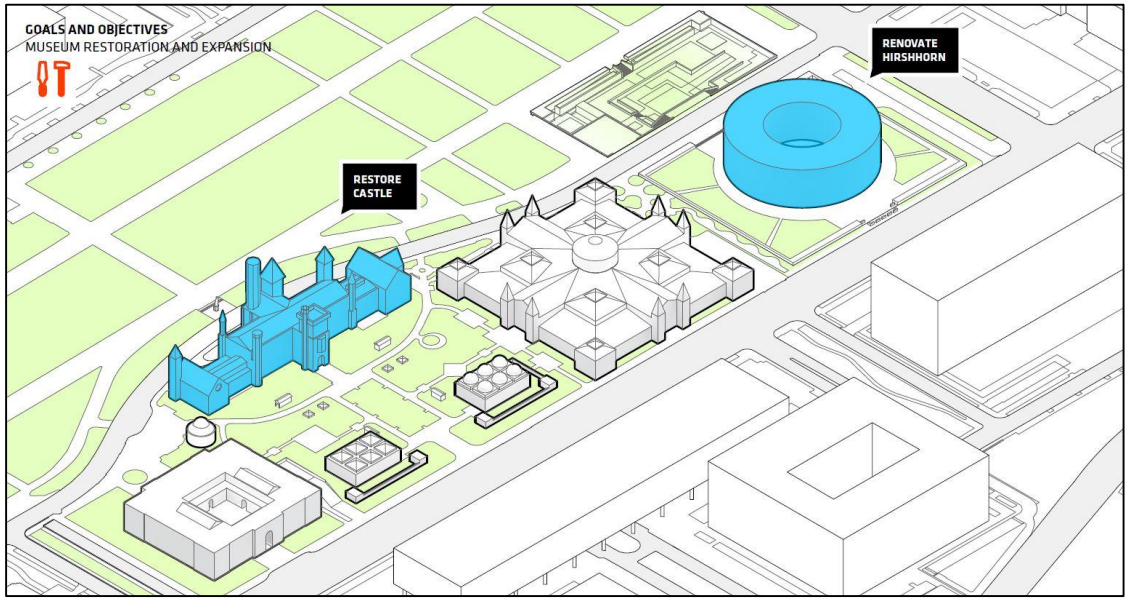
HIRSHHORN MUSEUM

Smithsonian

South Mall Campus Master Plan Coordination







South Mall Campus Master Plan Programmatic Agreement Compliance

PROGRAMMATIC AGREEMENT
AMONG
THE SMITHSONIAN INSTITUTION
THE DISTRICT OF COLUMBIA STATE HISTORIC PRESERVATION OFFICER
THE NATIONAL CAPITAL PLANNING COMMISSION
THE NATIONAL PARK SERVICE
AND
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION
REGARDING
THE SOUTH MALL CAMPUS MASTER PLAN

This Programmatic Agreement (PA) is made as of this 31 day of May, 2018, by and among the Smithsonian Institution (SI), the National Capital Planning Commission (NCPC), the District of Columbia State Historic Preservation Officer (DC SHPO), the National Park Service (NPS), and the Advisory Council on Historic Preservation (ACHP) (referred collectively herein as the "Signatories" or individually as a "Party" or "Signatory"), pursuant to Section 106 of the National Historic Preservation Act (NHPA), 54 U.S.C. §§ 306108, and its implementing regulations 36 CFR Part 800, and pursuant to 36 CFR § 800.14(b) authorizing the negotiation of a PA to govern the implementation of a particular program, and resolution of adverse effects from complex project situations or multiple undertakings, regarding the South Mall Campus Master Plan in Washington, DC (Undertaking); and

WHEREAS, for the purposes of this PA, the South Mall Campus is defined by Independence Avenue SW to the south; 12th Street SW to the west; Jefferson Drive SW to the north, and including the Joseph Henry statue and adjacent stair, and the Hirshhorn Museum's Sculpture Garden both located north of Jefferson Drive; and 7th Street SW to the east; and

WHEREAS, the South Mall Campus includes five principal buildings: the Freer Gallery of Art (Freer), the Smithsonian Institution Building (Castle), the Arts and Industries Building (AIB), the Quadrangle Building (Quadrangle), and the Hirshhorn Museum and Sculpture Garden (HMSG); with the Quadrangle housing the Ripley Education Center, Arthur M. Sackler Gallery (Sackler Gallery) and the National Museum of African Art (NMAfA). The Campus includes four designed gardens: the Enid A. Haupt Garden, the Mary Livingston Ripley Garden, the Kathrine Dulin Folger Rose Garden, and the Hirshhorn Museum Sculpture Garden. The Campus also includes subsidiary structures, interstitial landscape, paved circulation paths, and infrastructure, hereinafter referred to as the "Campus" or "Site" (Exhibit A); and

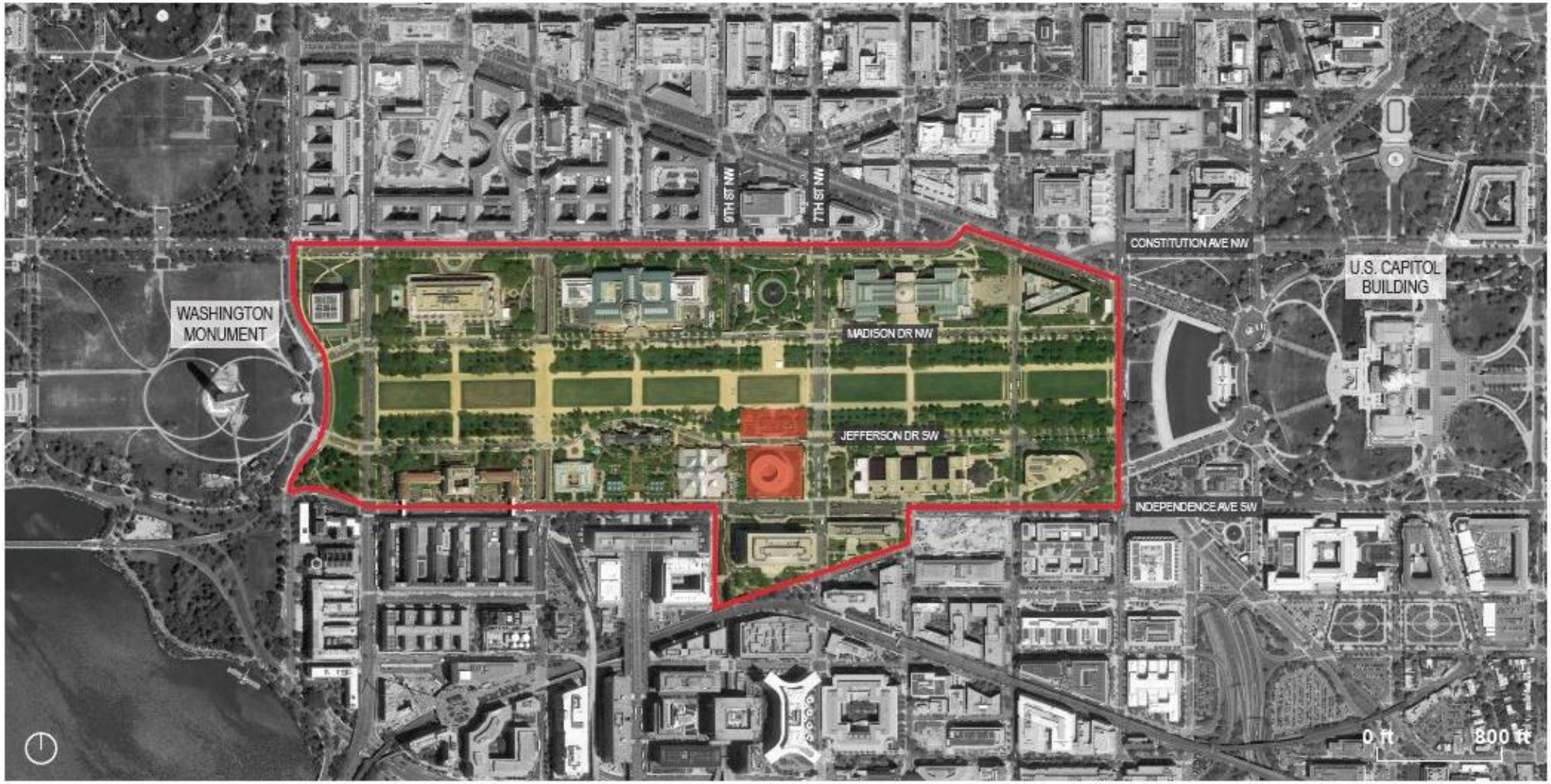
WHEREAS, pursuant to Section 106 of the NHPA federal agencies must take into account the effects of their undertakings on any district, site, building, structure or object that is included in or eligible for inclusion in the National Register of Historic Places (NRHP) and afford the ACHP a reasonable opportunity to comment; and

WHEREAS, pursuant to Public Law 108-72, 117 Stat. 888 (August 15, 2003), for projects in the District of Columbia that are subject to review and approval by the NCPC, the SI is deemed to be a federal agency for purposes of compliance with the regulations pursuant to Section 106 of the NHPA; and

WHEREAS, the NCPC has certain review and approval authority over federal projects located within the District of Columbia pursuant to the National Capital Planning Act of 1952, 40 U.S.C. § 8722(b)(1) and (d); and

HMSG website

Draft Area of Potential Effects



Area of Potential Effect

Project Location

Key Map
District of Columbia

Cleaning Tests

Mock-ups

Swenson Pink/Salisbury Pink Granite

Stony Creek Granite

Envelope Repair

Commission of Fine Arts Concept Review	June 2019
National Capital Planning Commission Concept Review	July 2019
Mock-ups – Precast aggregate concrete	TBD
Consulting Parties Meeting #2	TBD

Sculpture Garden Revitalization

Commission of Fine Arts Concept Review	May 2019
National Capital Planning Commission Concept Review	June 2019
Mock-ups – Two stacked stone wall options	July 2019
Consulting Parties Meeting #2 (Mock-up review, Assessment of Effects – 30 days Consulting Parties advance review notice)	July/August 2019

Please submit any written questions or comments on the content of this presentation to Carly Bond at BondC@si.edu by May 3rd

HIRSHHORN MUSEUM
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