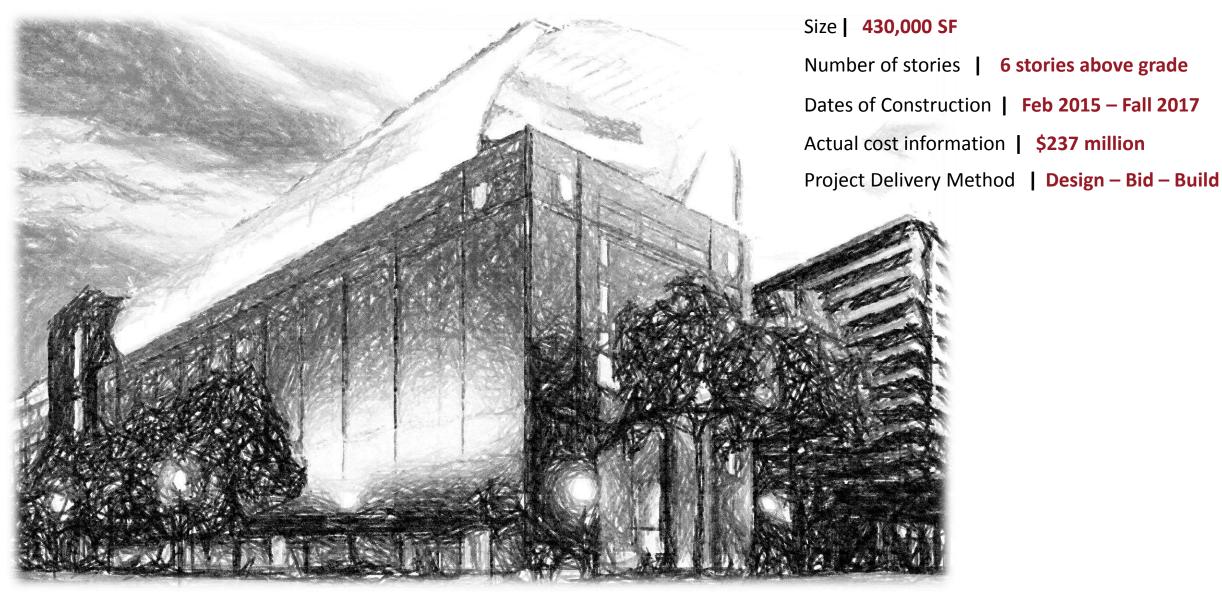


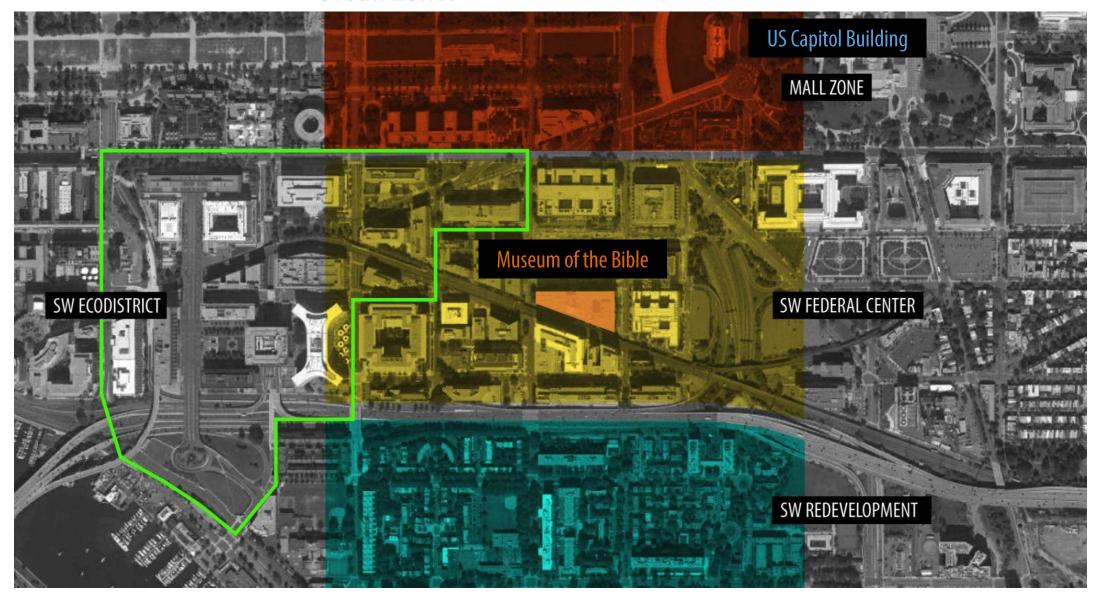
Building Overview: General Statistics



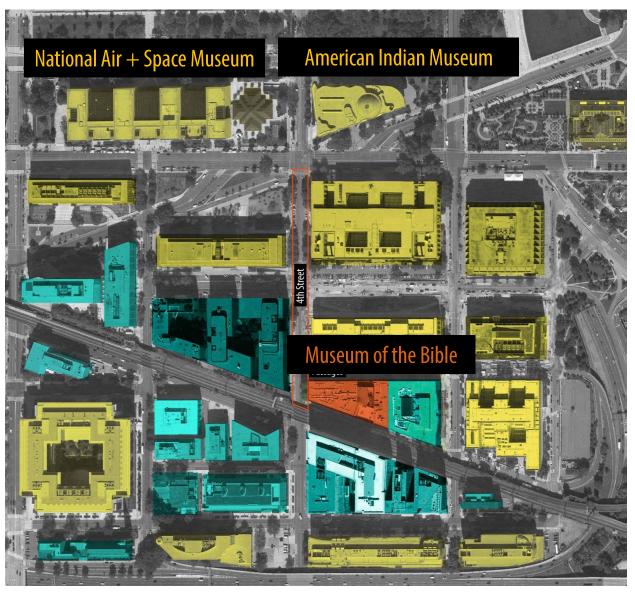


Building Name | Museum of the Bible (MOTB)

Urban Context: Urban Zones



Urban Context: Public & Private











Urban Context: Time & Transit



Average weekday passenger boarding at stations:

L'Enfant Plaza: **21,926** passengers

Federal Center: **6,439** passengers

VRE: 15,000 passengers

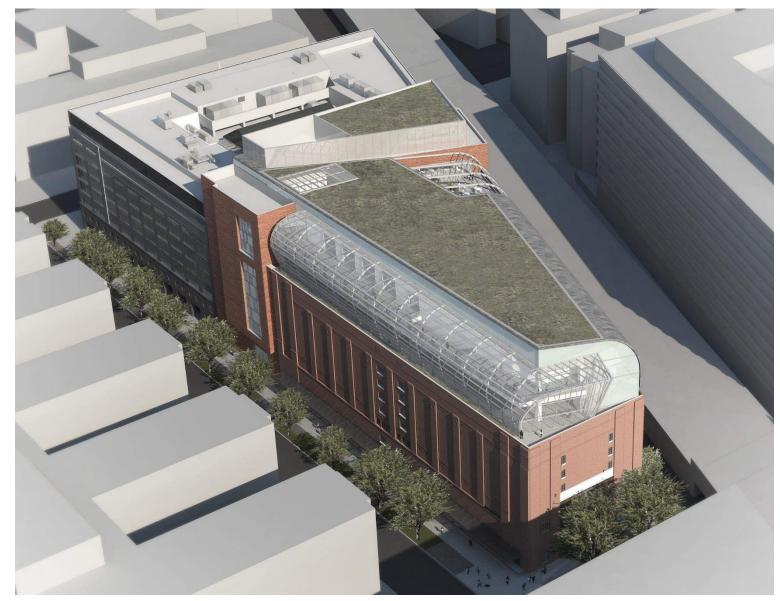


Museum of the Bible

Urban Context: Footprint



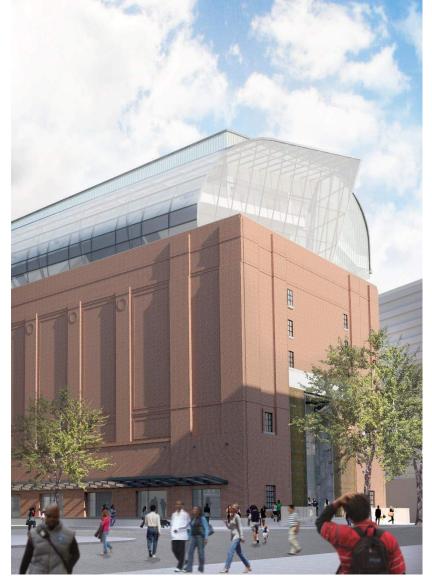
Urban Context: Exterior Aesthetic





Urban Context: Exterior Aesthetic











BUILDING

CONCEPT

LOBBY

PERFORMANCE

COLLECTIONS

GARDENS











BUILDING

CONCEPT











Light to Guide Enlightenment











Light to Educate + Share Stories











Light to Preserve History











Light to Induce Personal Reflection











See the World in a New Light

BUILDING











An Induced Awakening











18







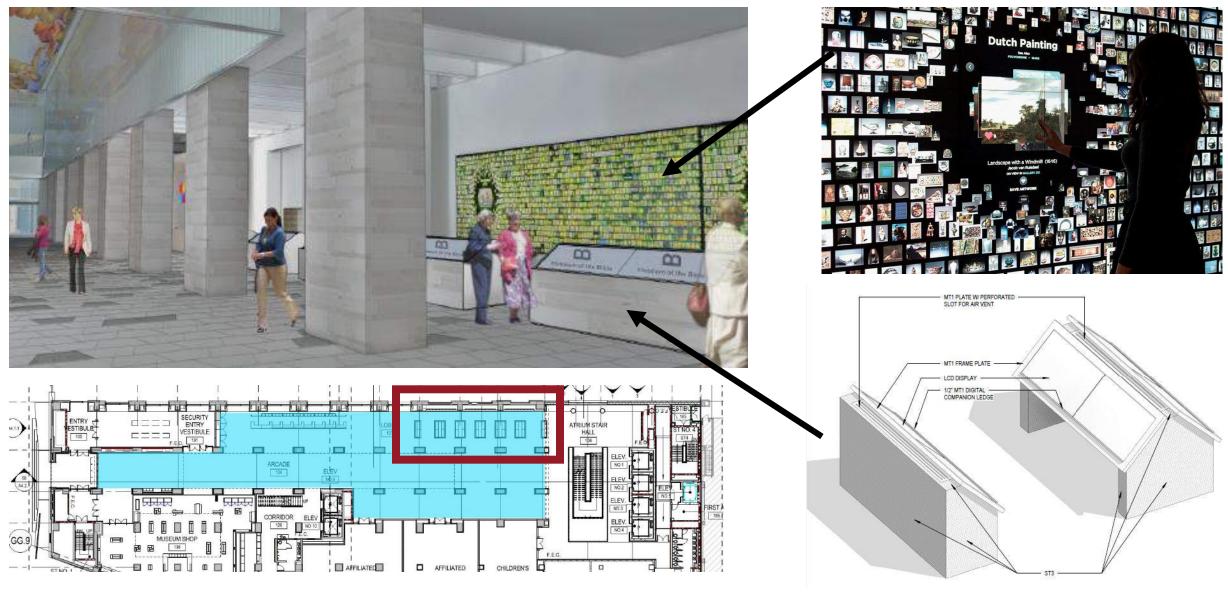
GALILEE GRAY LS SIMENA LS

BUILDING

CONCEPT

LOBBY PERFORMANCE COLLECTIONS

GARDENS



BUILDING

CONCEPT

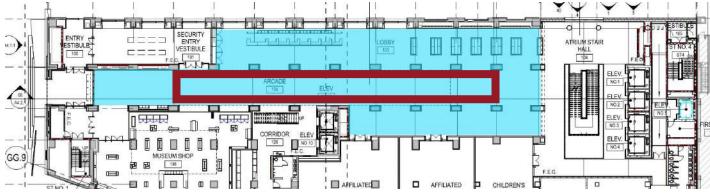
LOBBY

PERFORMANCE

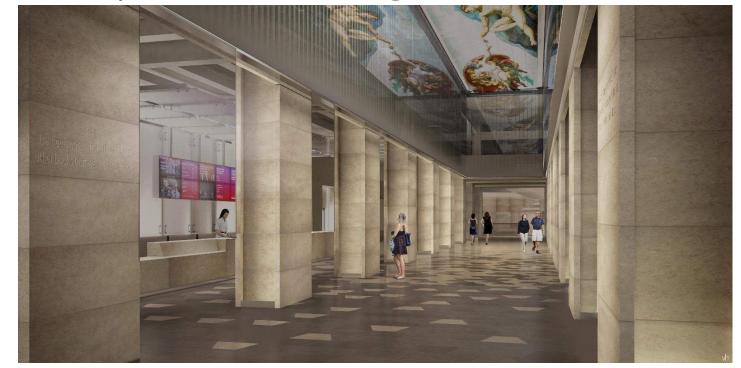
COLLECTIONS

GARDENS





Lobby + Arcade: Design Considerations + Criteria



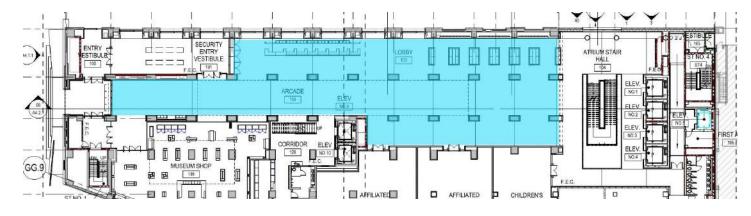
Square Footage | 10,040 sf

Height | 41.25 ft.

Length | 194 ft.

Space Tasks | Transition, Circulation, Desk Services,
Way-finding, Reading (iPads)

Goal is to evoke an impressionable, emotional response from visitors by implementing the sensation of spaciousness.



Considerations

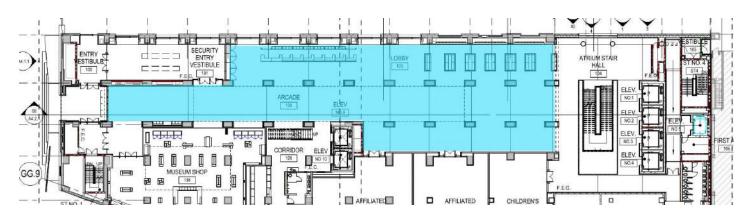
Circulation + Transition

Accent Major Elements

Controls + Scenes

Lobby + Arcade: Design Considerations + Criteria





Illuminance Criteria:

Daytime Conditions

100 lux horizontal, 30 lux vertical

Nighttime Conditions

50 lux horizontal, 20 lux vertical

Lighting Power Density:

0.9 W/sf

BUILDING

CONCEPT

LOBBY

PERFORMANCE

COLLECTIONS

GARDENS

Lobby + Arcade: Light to Guide Enlightenment











Light to Guide Enlightenment

BUILDING CONCEPT **Lobby** Performance collections gardens gallery **24**

Lobby + Arcade: Light to Guide Enlightenment



BUILDING

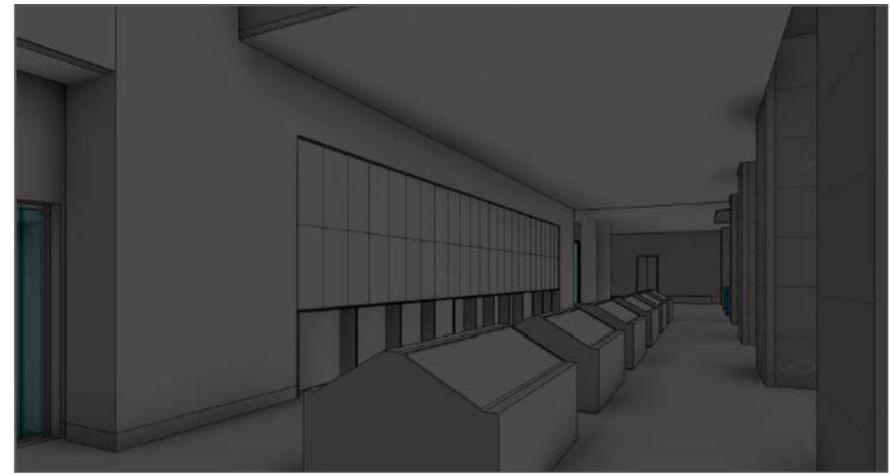
CONCEPT

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PERFORMANCE

COLLECTIONS

GARDENS





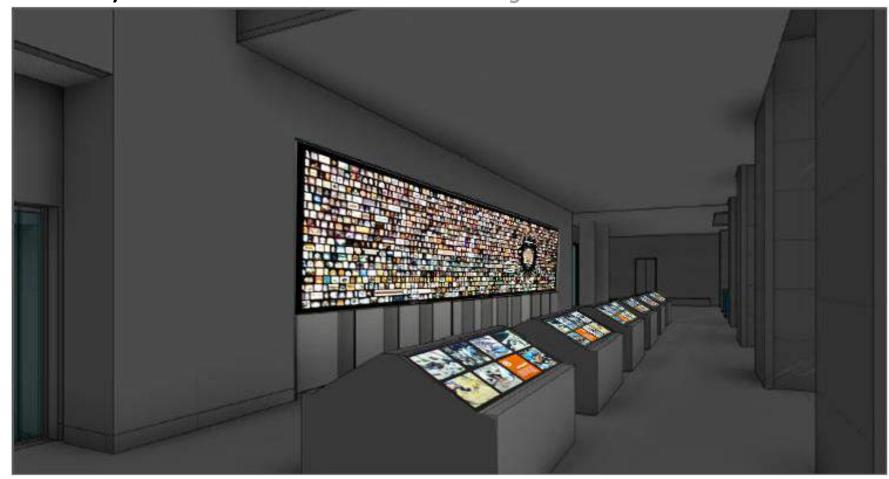


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GARDENS







BUILDING

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PERFORMANCE COLLECTIONS GARDENS GALLERY





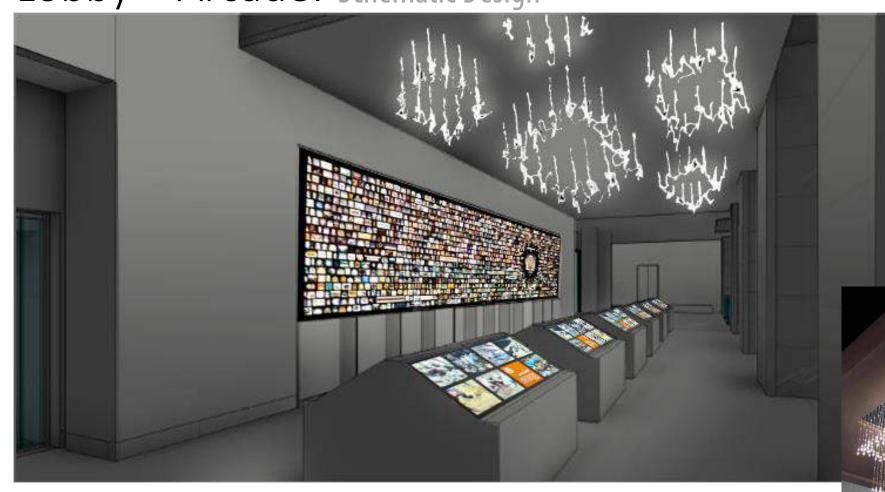




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PERFORMANCE COLLECTIONS GARDENS GALLERY



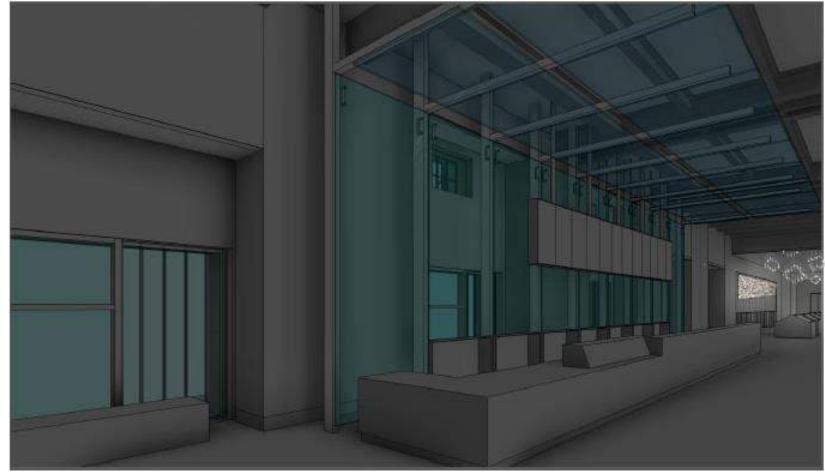








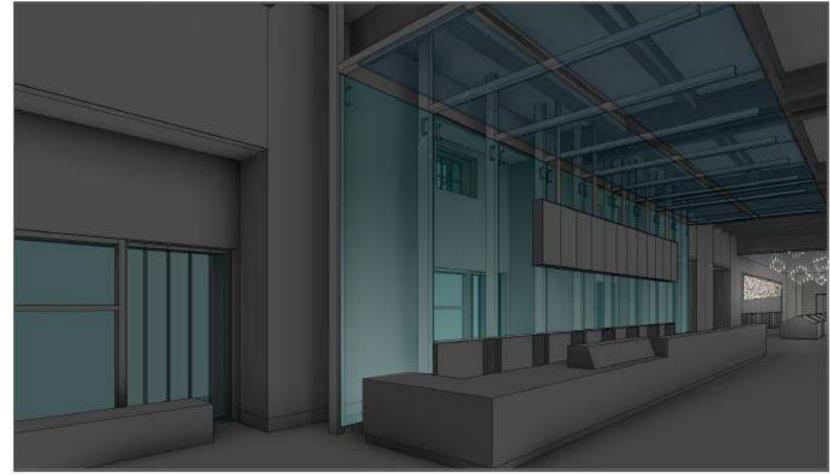






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BUILDING

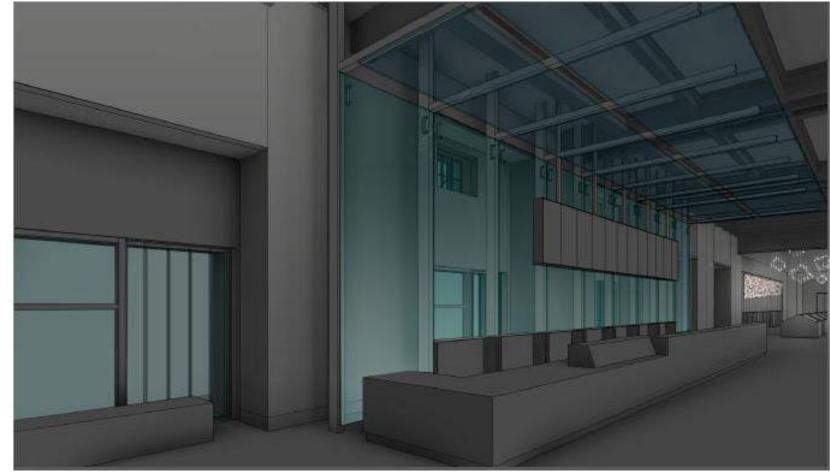
CONCEPT

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PERFORMANCE

COLLECTIONS

GARDENS









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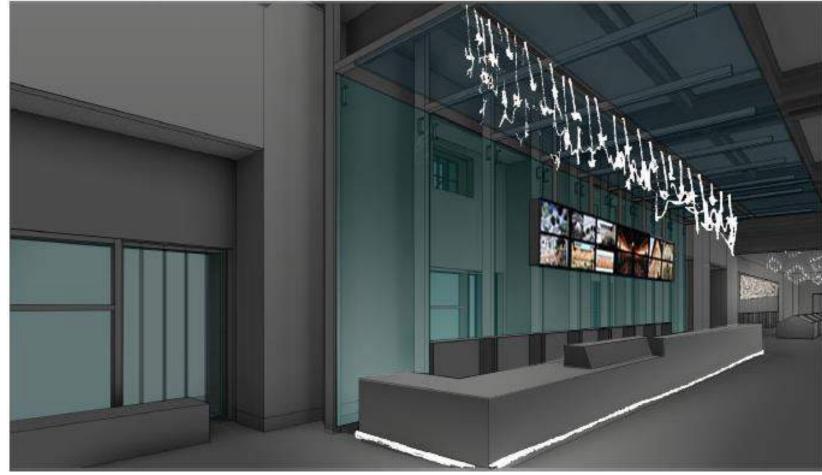
CONCEPT

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PERFORMANCE

COLLECTIONS

GARDENS















BUILDING

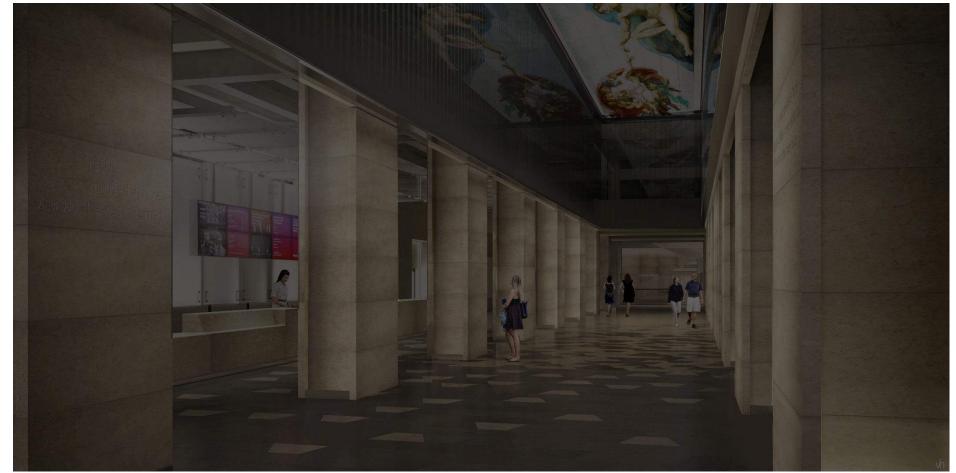
CONCEPT

LOBBY

PERFORMANCE

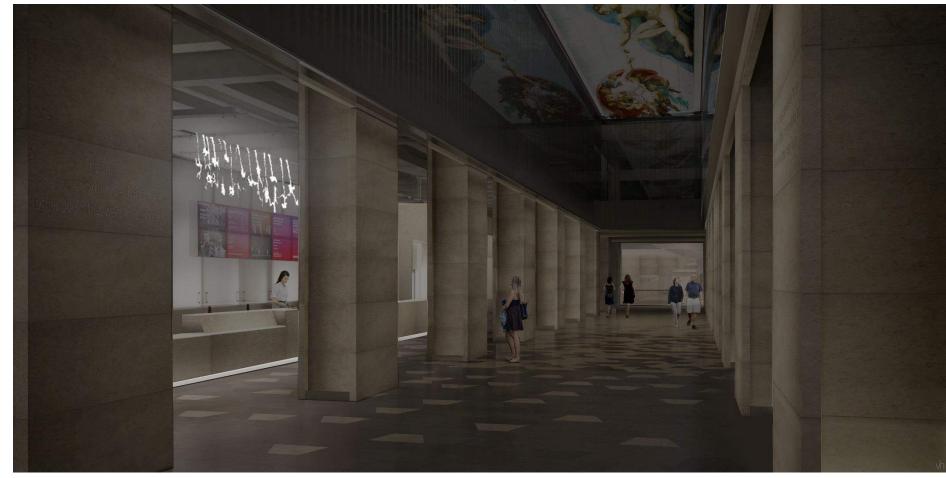
COLLECTIONS

GARDENS

















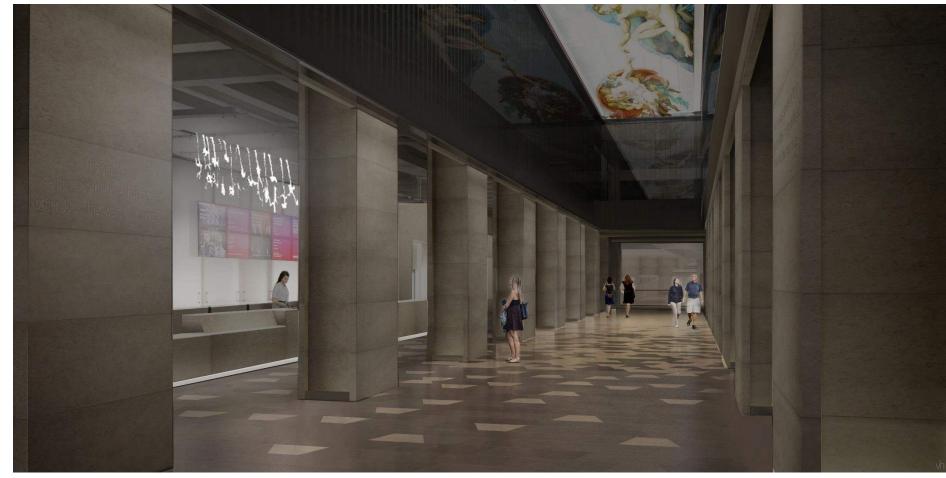
BUILDING

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PERFORMANCE

COLLECTIONS

GARDENS GALLERY











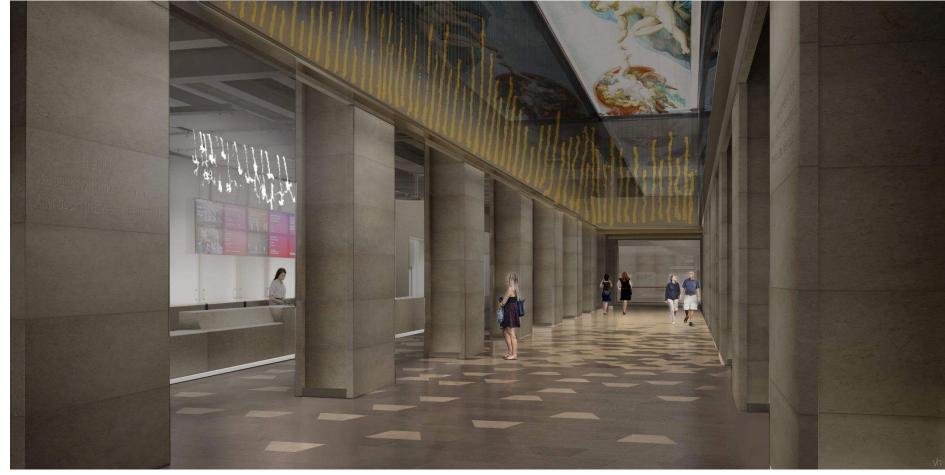


BUILDING

LOBBY

GARDENS GALLERY

Lobby + Arcade: Schematic Design















BUILDING CONCEPT

LOBBY

PERFORMANCE

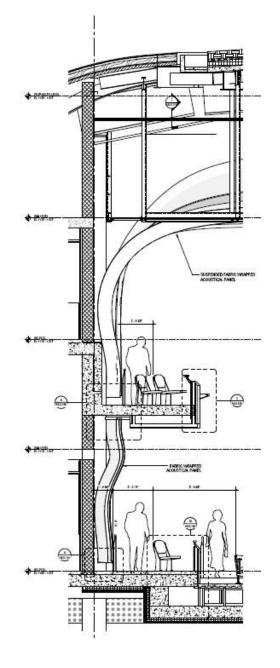
COLLECTIONS

GARDENS



Performance Hall: Location + Special Considerations

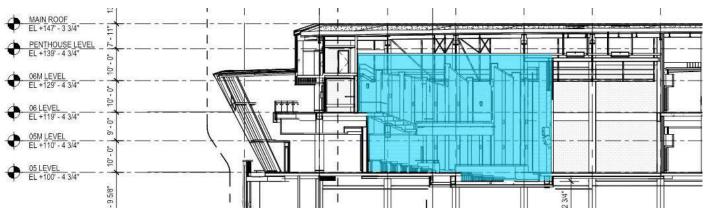




BUILDING

Performance Hall: Design Considerations + Criteria





Square Footage | 3,475 sf Height | 31.75 ft.

Space Tasks | Various Performances, Lectures,
Assembly, Musical Production

Goal is to use the space's monumental form to expose the public to the magic of the arts with three different schematic designs.

Considerations

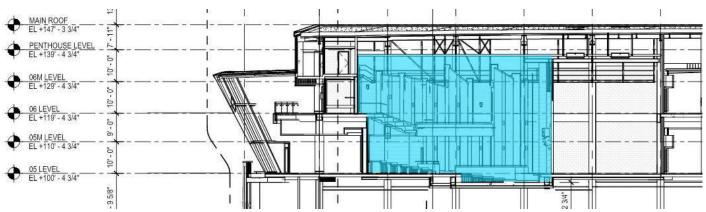
Spatial Versatility

Fixture Glare

Controls + Dimming

Performance Hall: Design Considerations + Criteria





Illuminance Criteria:

Theatre Seating During Show
2 lux horizontal, 10 lux vertical
Theatre Seating Pre/Post Show
75 lux horizontal, 50 lux vertical

Lighting Power Density:

2.43 W/sf

Performance Hall: Light to Educate + Share Stories







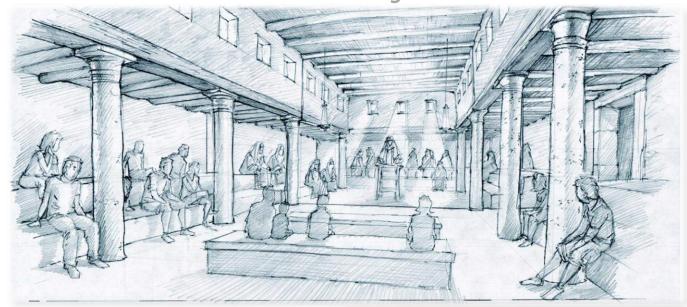




Light to Educate + Share Stories

BUILDING CONCEPT LOBBY **Performance** collections gardens gallery ^a

Performance Hall: Light to Educate + Share Stories









BUILDING

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PERFORMANCE

COLLECTIONS

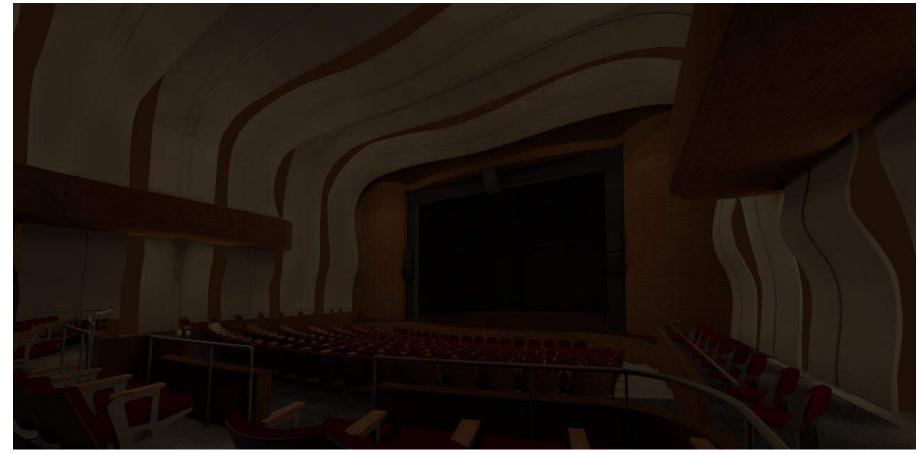
GARDENS

Goal is to use the space's monumental form to expose the public to the magic of the arts with three different schematic designs.



















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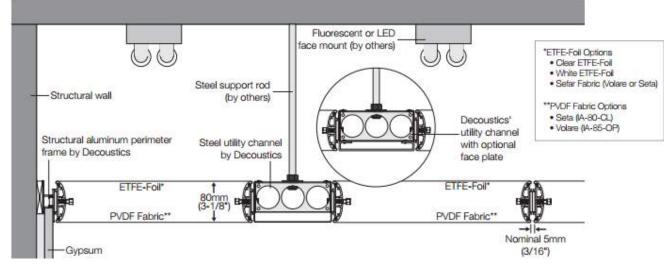
PERFORMANCE

COLLECTIONS

GARDENS







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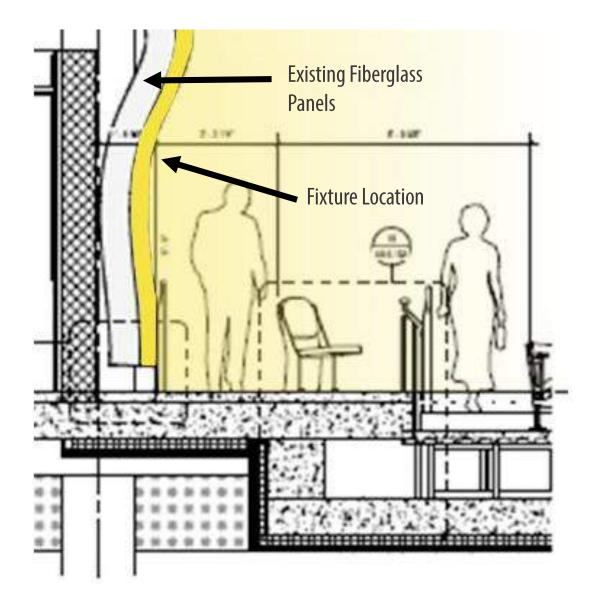
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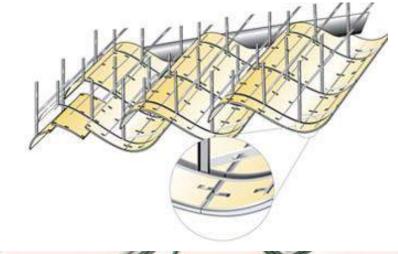
COLLECTIONS

GARDENS











BUILDING CONCEPT LOBBY **Performance** collections gardens gallery 4







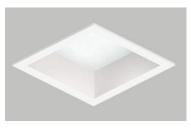
BUILDING CONCEPT LOBBY **PERFORMANCE** COLLECTIONS GARDENS GALLERY

50









BUILDING

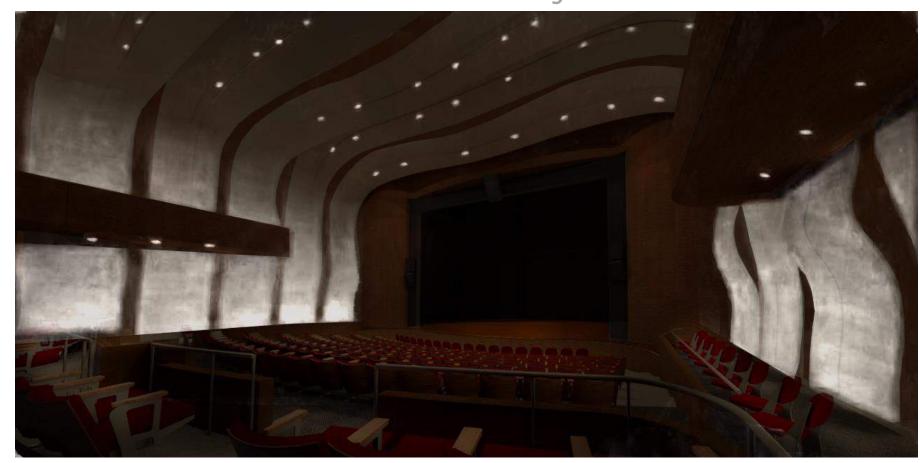
CONCEPT

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COLLECTIONS

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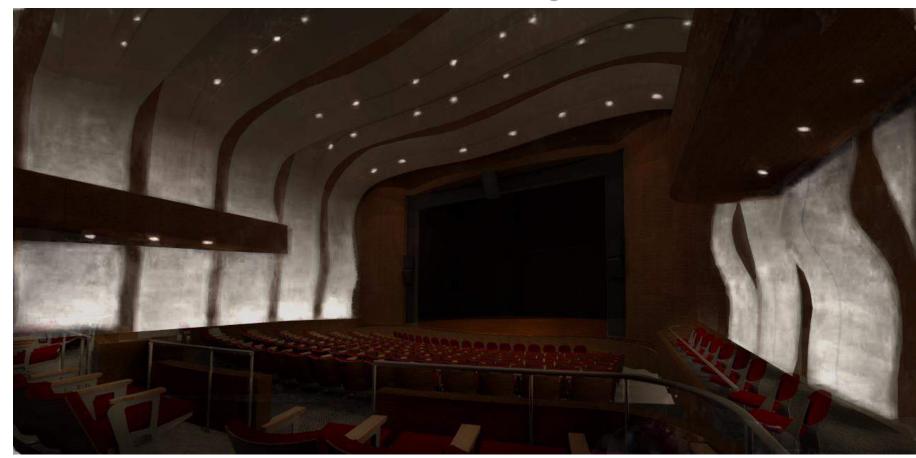
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GARDENS







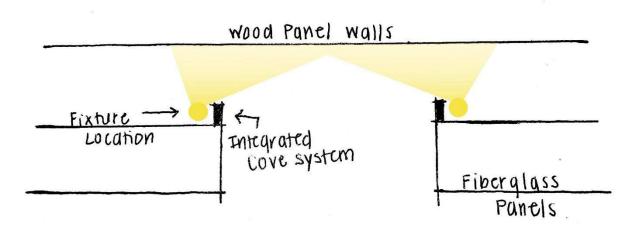


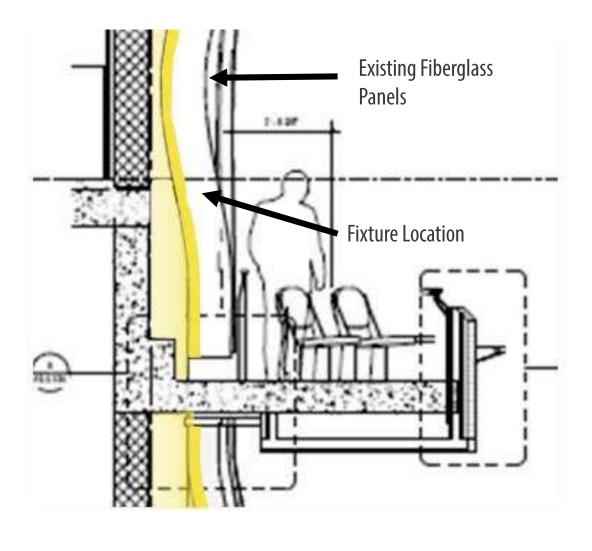




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COLLECTIONS

GARDENS





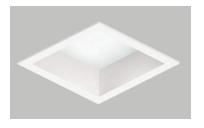


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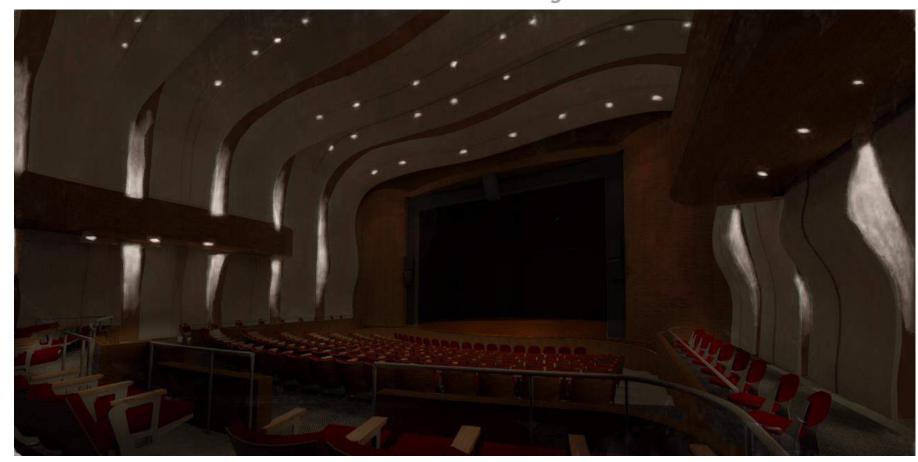
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COLLECTIONS

GARDENS











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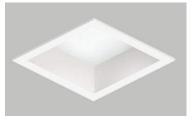
COLLECTION

GARDENS









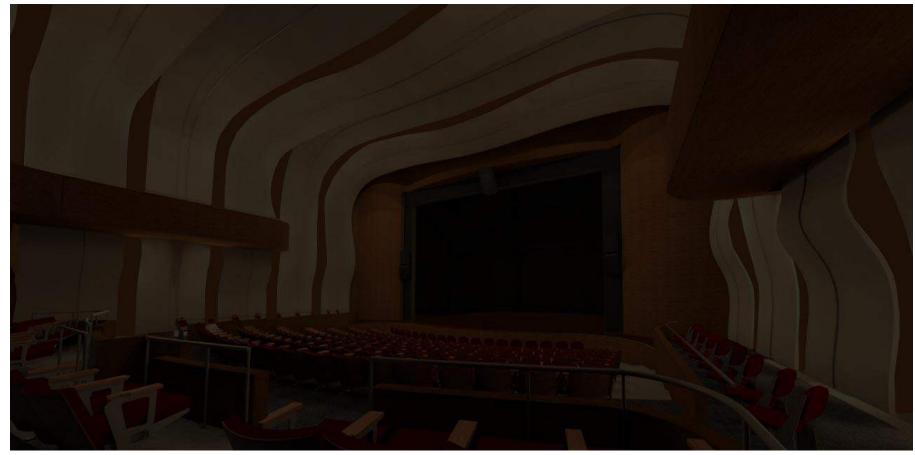






COLLECTIONS

GARDENS





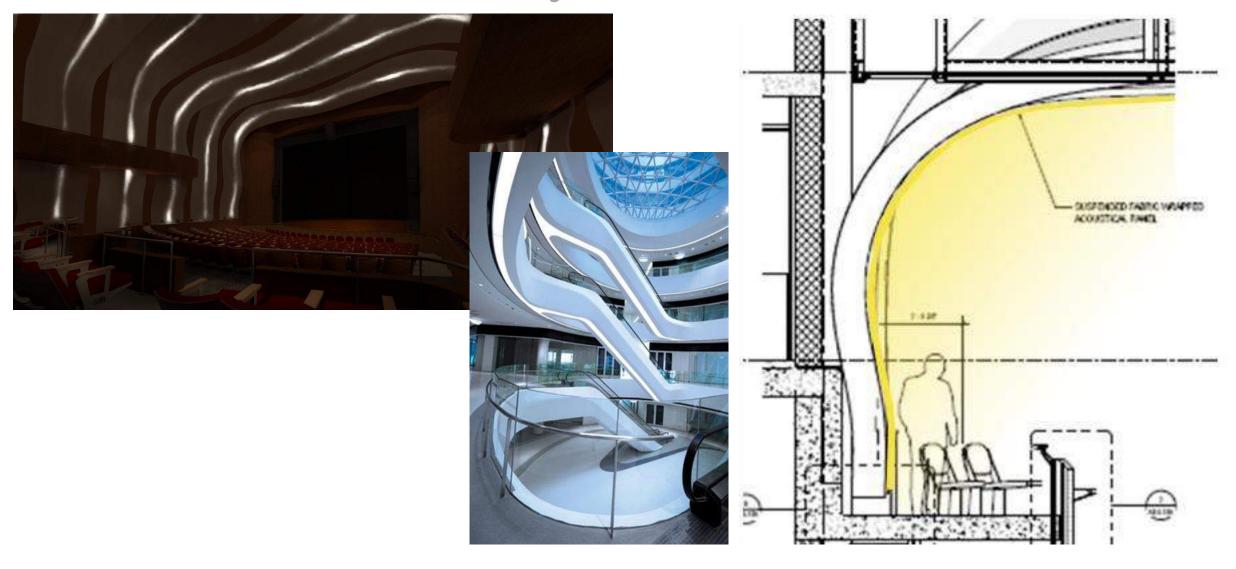








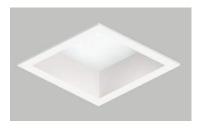
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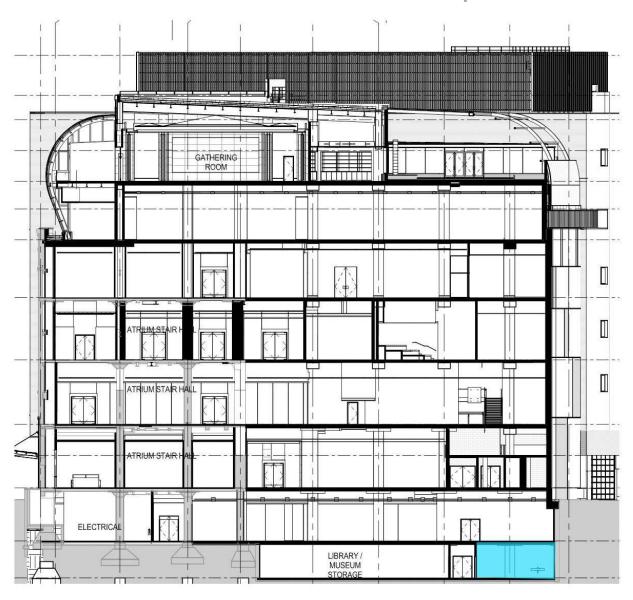
PERFORMANCE

COLLECTION

GARDENS



Collections Lab: Location + Special Considerations







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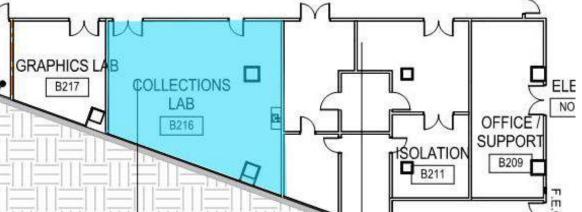
PERFORMANCE

COLLECTIONS

GARDENS

Collections Lab: Design Considerations + Criteria





Square Footage | 1,019 sf

Height | 12 ft.

Space Tasks | Preservation, Restoration, Research,

Documentation

Goal is to create a sterile and functional lab for artifact retrieval and restoration.

Considerations

Exposure Considerations

Uniformity

Controls + Scenes + Dimming

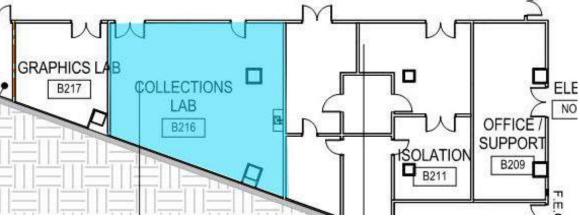
No UV Radiation

BUILDING

CONCEPT

Collections Lab: Design Considerations + Criteria





Illuminance Criteria:

Collections Lab

500 lux horizontal, 150 lux vertical

Lighting Power Density:

1.81 W/sf

BUILDING

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PERFORMANCE

COLLECTIONS

GARDENS

GALLER'

Collections Lab: Light to Preserve History











Light to Preserve History

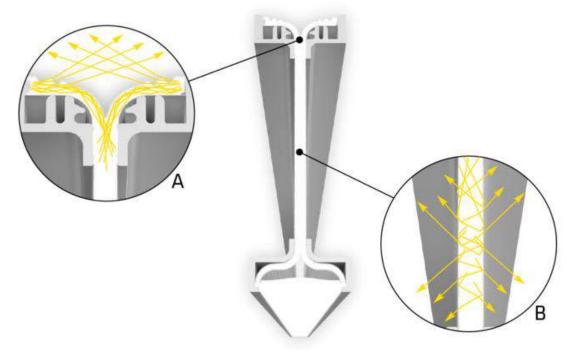
Collections Lab: Light to Preserve History





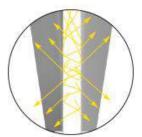
"WHO CONTROLS THE PAST CONTROLS THE FUTURE WHO CONTROLS THE PRESENT CONTROLS THE PAST"

Collections Lab: Schematic Design

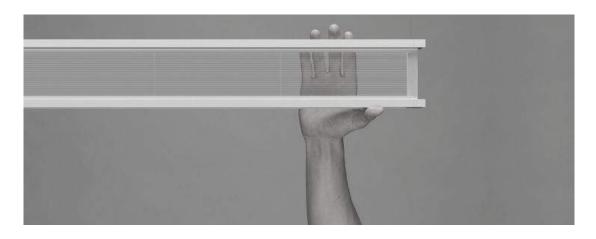




(A) Anidolic optical structures disperse and mix light, eliminating any visible images of the LED point source and ensuring accurate and consistent color.



(B) Precise extraction elements refract and reflect light, emitting high performance distributions with exceptional optical control and efficacies.





Collections Lab: Schematic Design





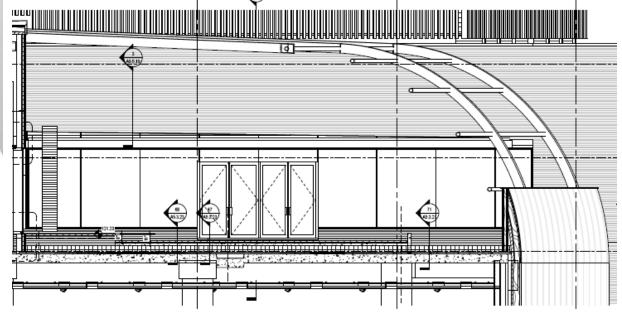


GARDENS GALLERY

Biblical Gardens: Location + Special Considerations



North — South Building Section Cut



BUILDING

CONCEPT

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GARDENS

Biblical Gardens: Location + Special Considerations



BUILDING

GARDENS

Biblical Gardens: Location + Special Considerations



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COLLECTIONS

GARDENS

Biblical Gardens: Design Considerations + Criteria





Square Footage | 3,052 sf

Height | 27 ft.

Space Tasks | Circulation, Eating, Reading,
Break-Out, Downtown Viewing

Goal is to honor the precious plants and artifacts in the garden while guiding people through to the kitchen or staircase.

Considerations

Low Level + Highlight

Perimeter Accents

Controls

Weather Resistant

BUILDING CONCEPT LOBBY

PERFORMANCE

COLLECTIONS

GARDENS

Biblical Gardens: Design Considerations + Criteria





Illuminance Criteria:

Transition - Plaza

6 lux horizontal, 2 lux vertical

Lighting Power Density:

0.16 W/sf

BUILDING

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COLLECTIONS

GARDENS

Biblical Gardens: Light to Induce Personal Reflection









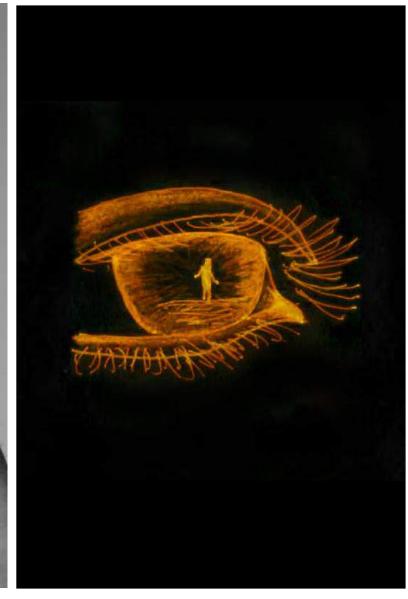


Light to Induce Personal Reflection

Biblical Gardens: Light to Induce Personal Reflection







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PERFORMANCE

COLLECTIONS

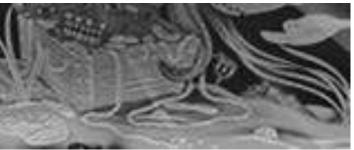
GARDENS

















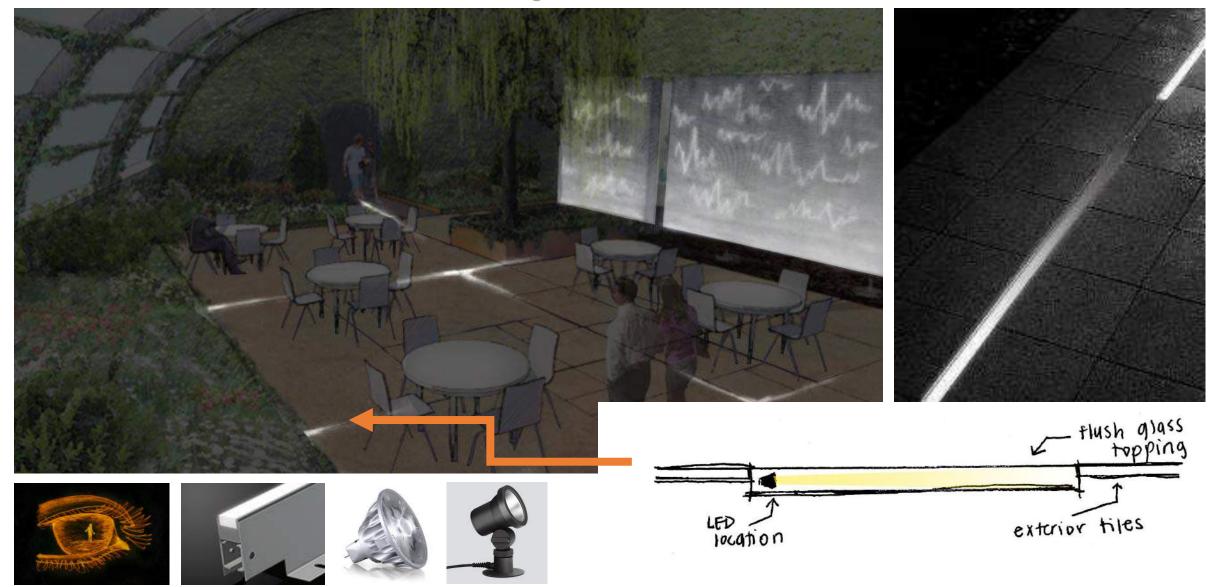


BUILDING CONCEPT

PERFORMANCE



GARDENS



BUILDING

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COLLECTION

GARDENS

















Reflective Ball Sculptures Integrated In Garden















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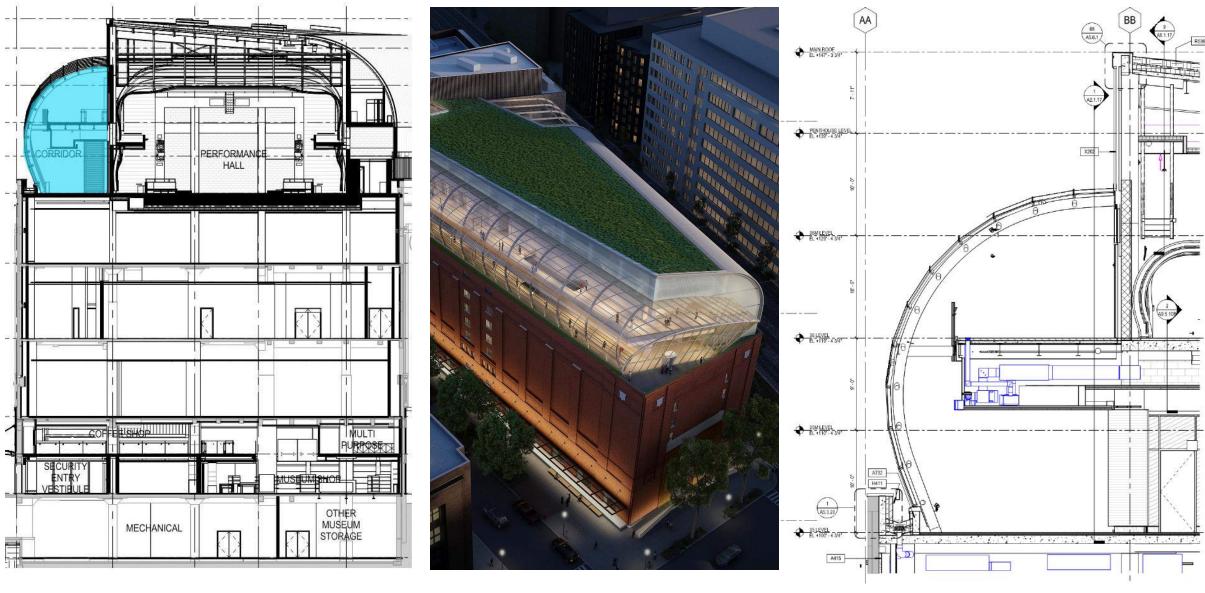
COLLECTIONS

GARDENS





Gallery Addition: Location + Special Considerations



BUILDING

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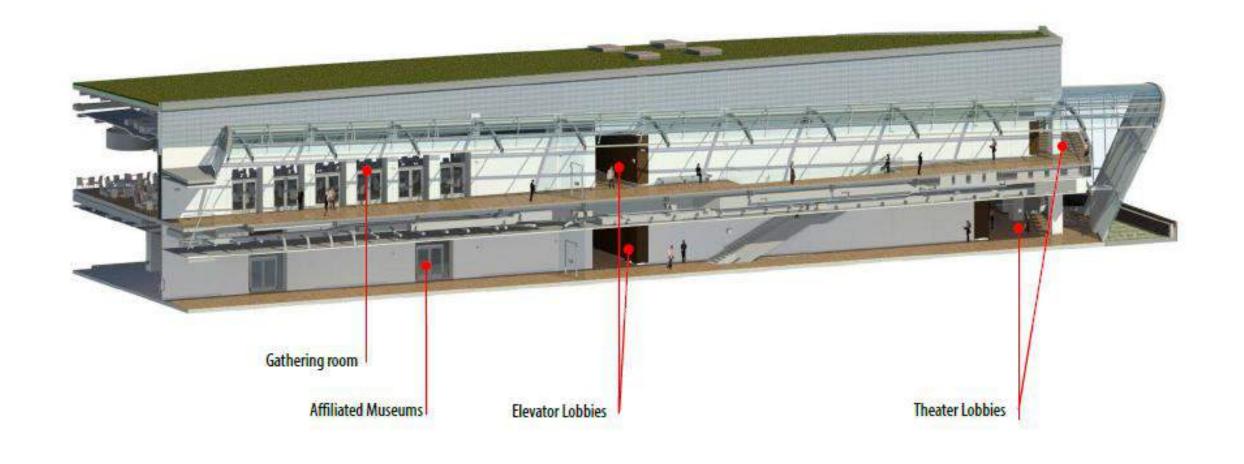
LOBBY

PERFORMANCE

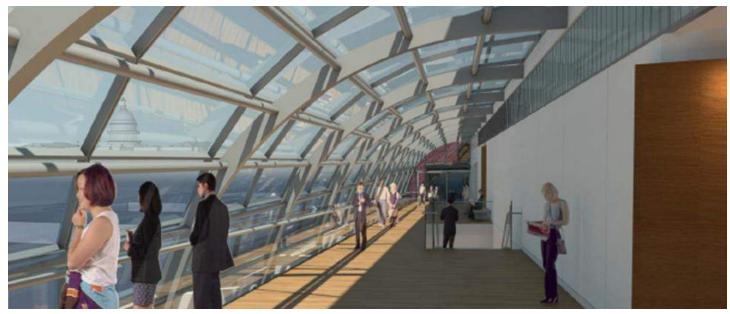
COLLECTIONS

GARDENS

Gallery Addition: Location + Special Considerations



Gallery Addition: Design Considerations + Criteria



nigh

Square Footage | 10,360 sf Height | 44 ft. (2 floors)

Space Tasks | Transition, Wayfinding, Site-Seeing

Goal is to implement a unique, parametrically optimized daylighting strategy that interacts with the interior control system as well as a nighttime condition that minimizes reflections.

Considerations

Shading Techniques

Glare

Reflections

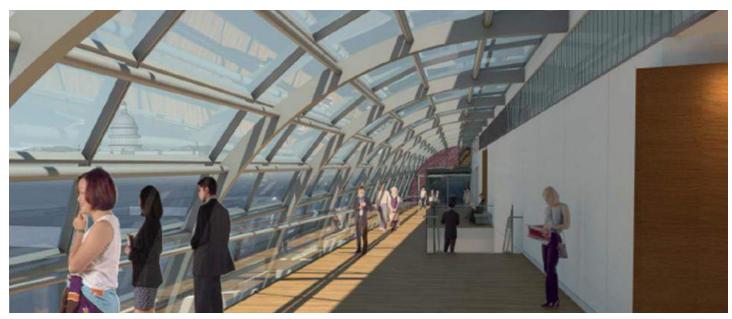
Integrated Controls

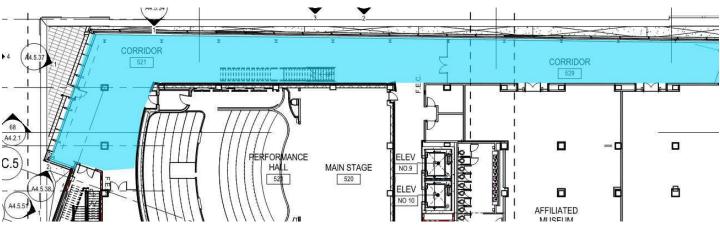
BIIII DING

CONCEPT

MAIN STAGE

Gallery Addition: Design Considerations + Criteria





Illuminance Criteria:

Corridor – Lobby Circulation

100 lux horizontal, 30 lux vertical

Lighting Power Density:

0.66 W/sf

Gallery Addition: See the World in a New Light











See the World in a New Light

Gallery Addition: See the World in a New Light







BUILDING

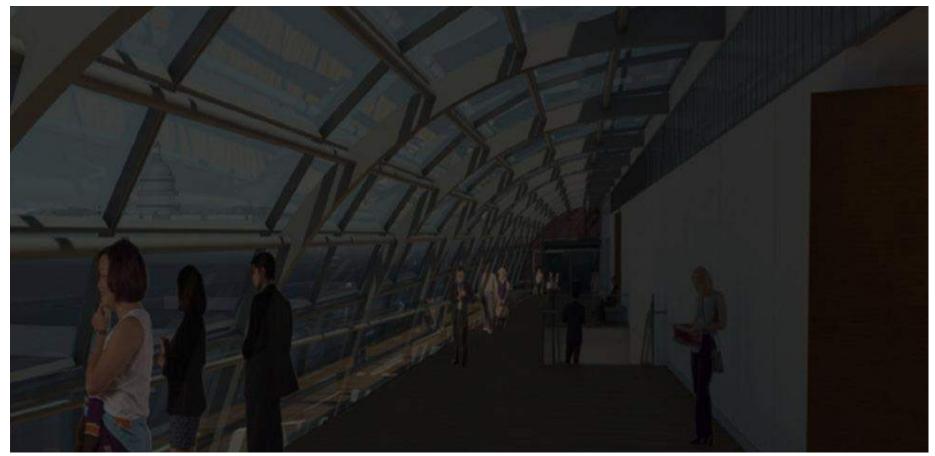
CONCEPT

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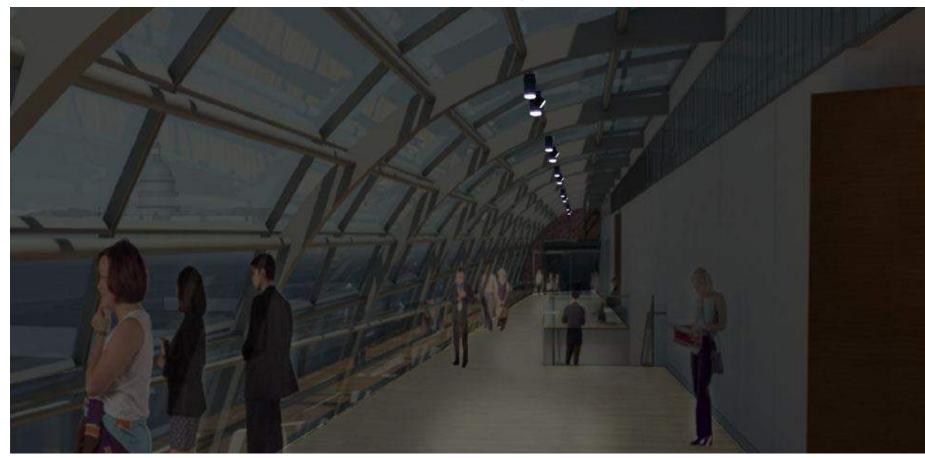
COLLECTIONS

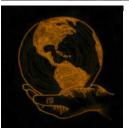
GARDENS









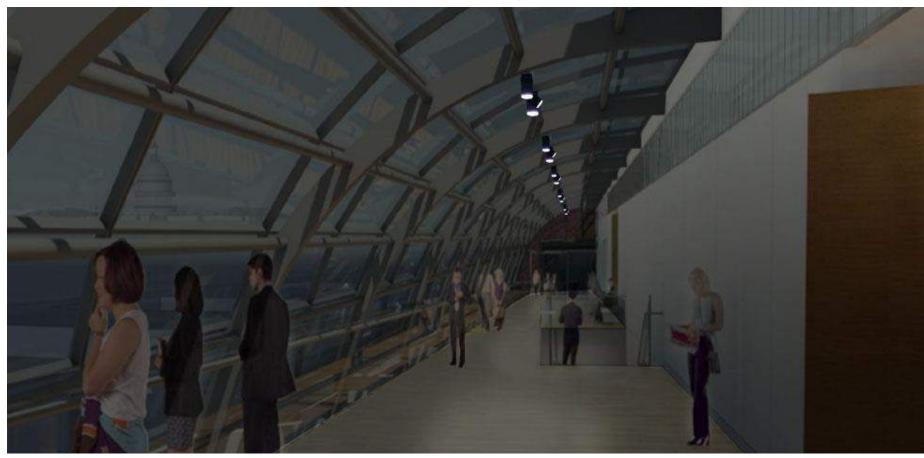






BUILDING

CONCEPT

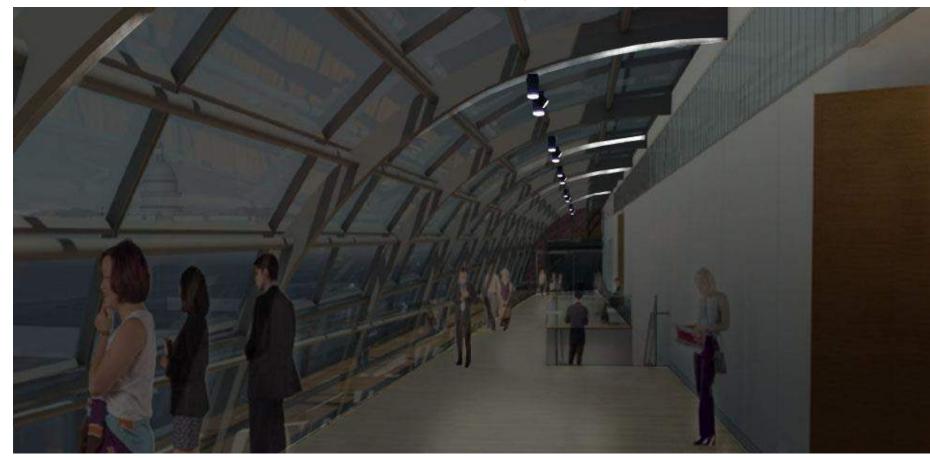








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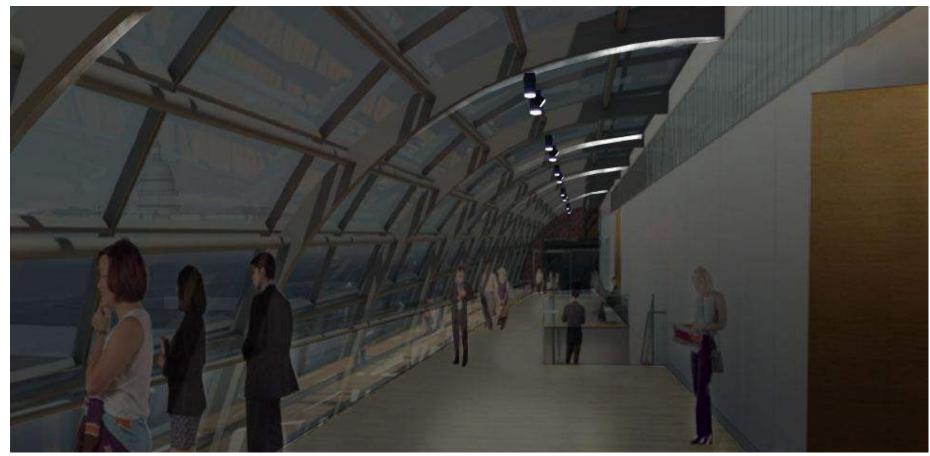














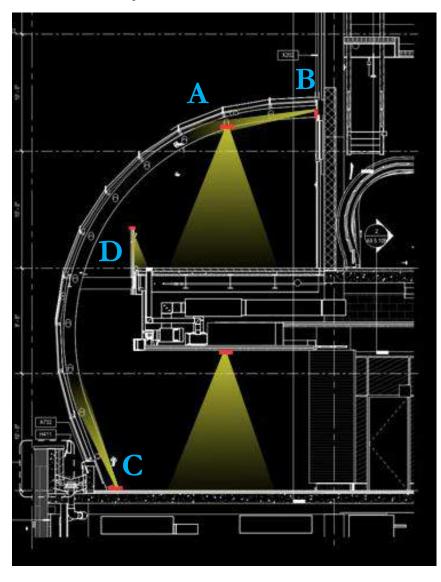




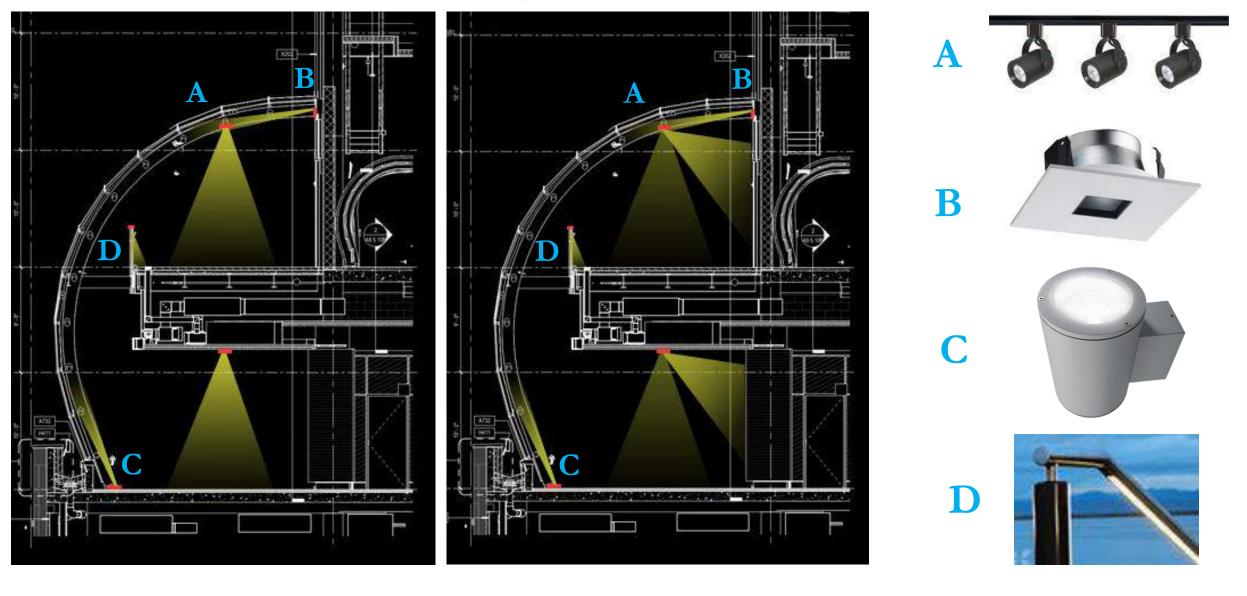






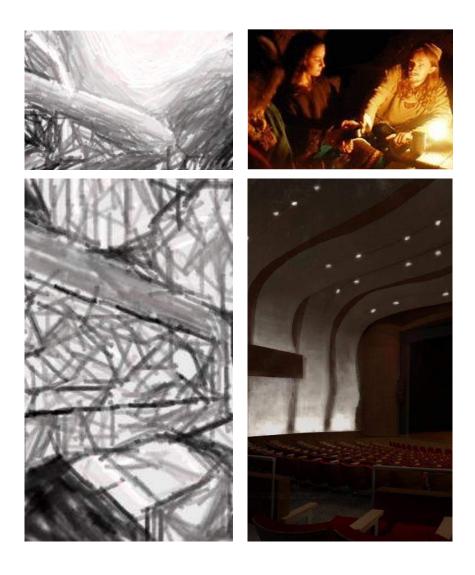




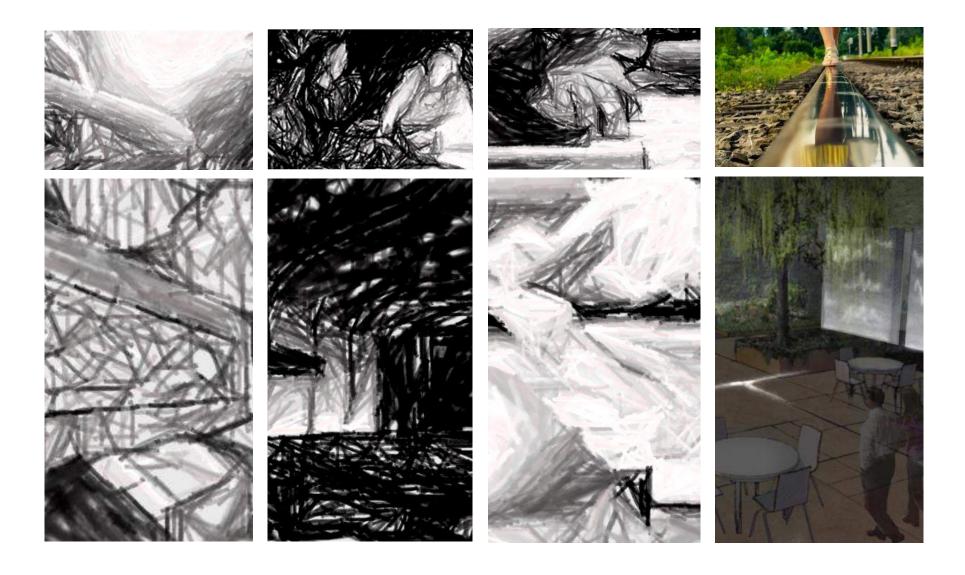


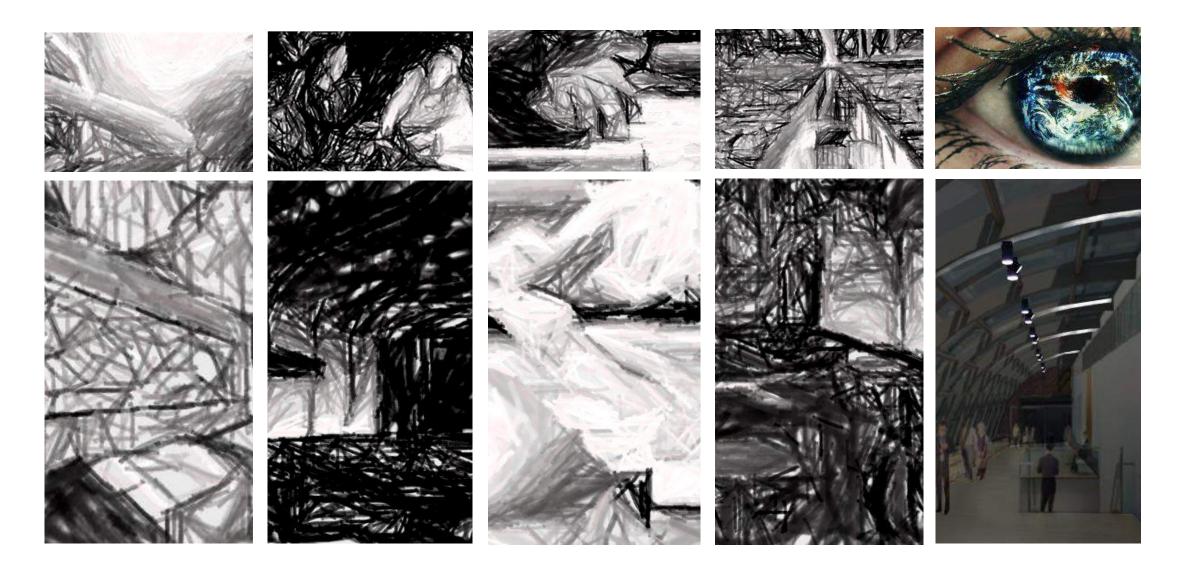




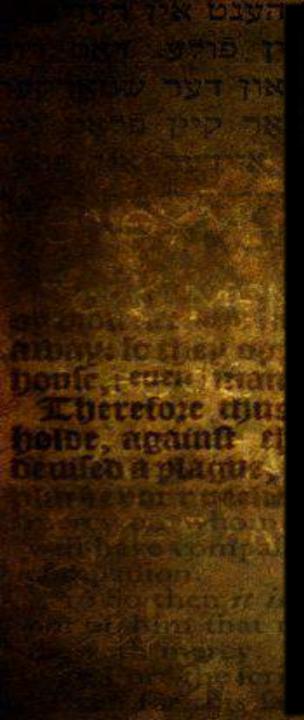














Special Thanks!

SmithGroupJJR

for all models and images used this project exploration

Museum of the Bible

for project permission and educational opportunity

Dr. Richard Mistrick

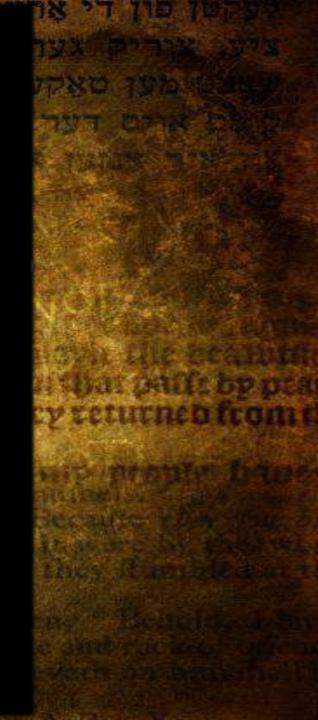
Luke Renwick

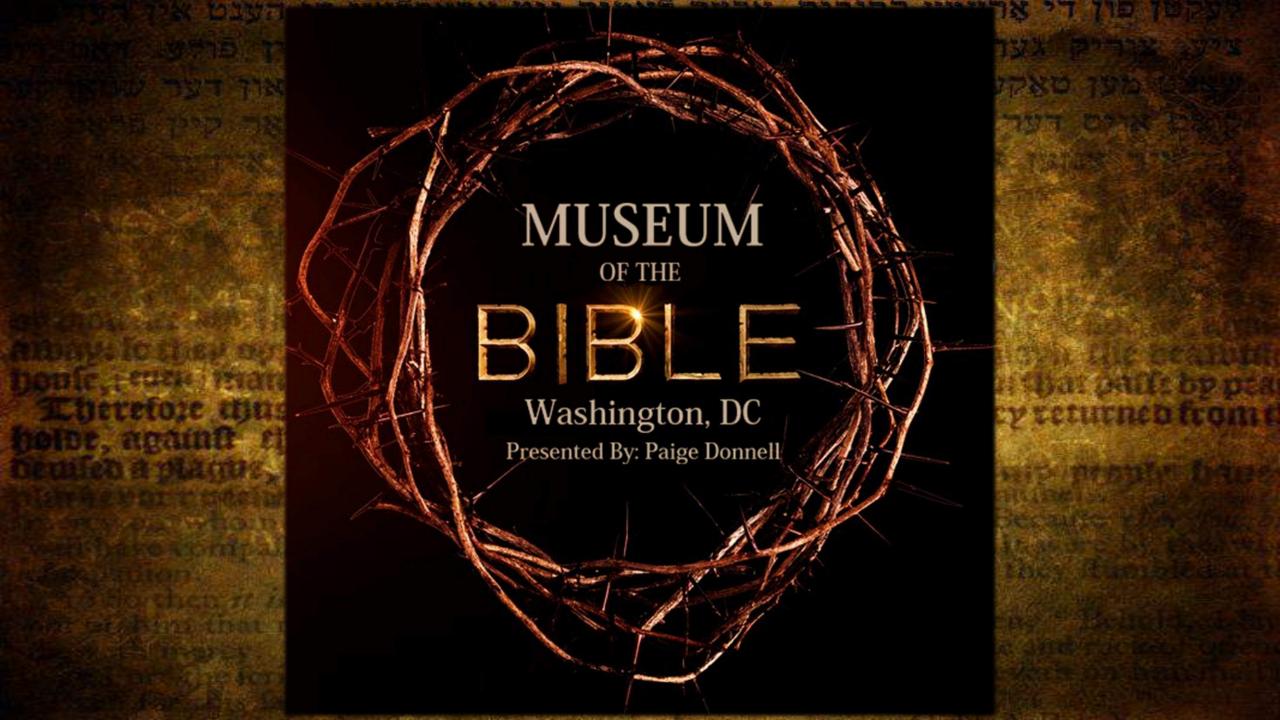
My Fellow Students

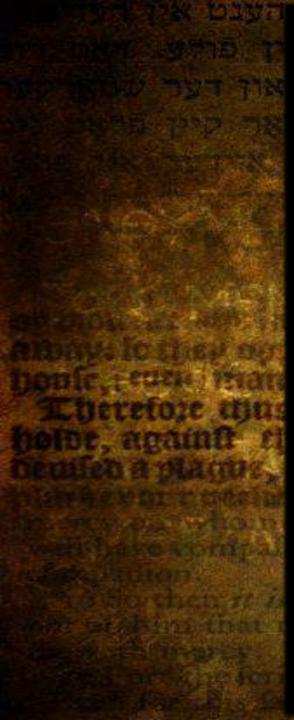
Any Questions?











References:

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https://www.clarkconstruction.com/news/clark-build-washington-dcs-museum-bible

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