#### THE FIRST CHURCH OF CHRIST, SCIENCE

#### Proposed Accessible Entry BLC Hearing

October 26, 2021





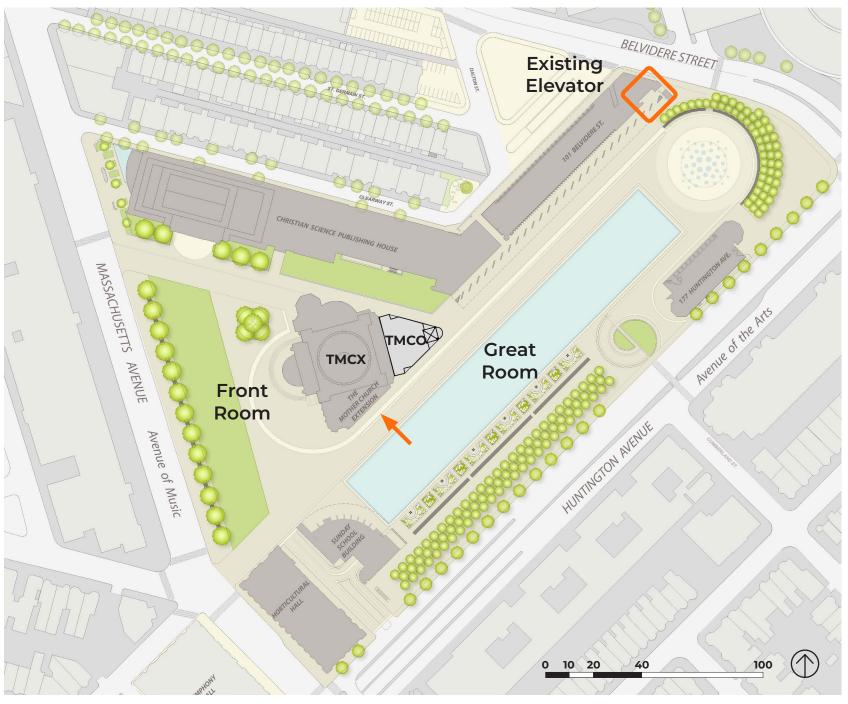
### **TFCCS Site Plan**

#### Challenge

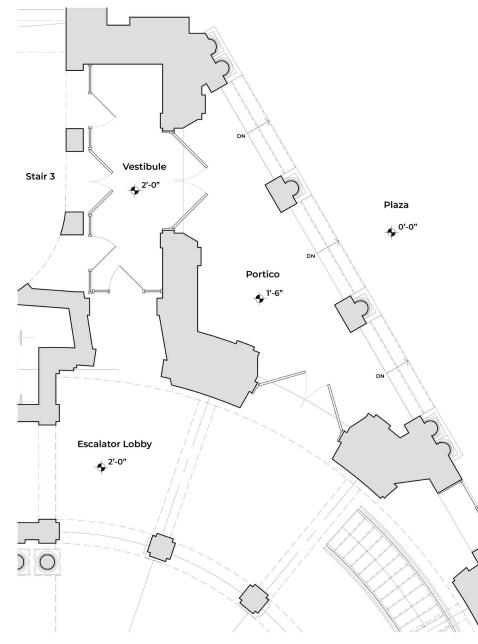
Currently, there is only one elevator that services the plaza from the garage, which is how a majority of the congregation arrives at the church. The elevator is located at the far north end of the complex, making it difficult for anyone that needs assistance from the garage to the plaza to access it.

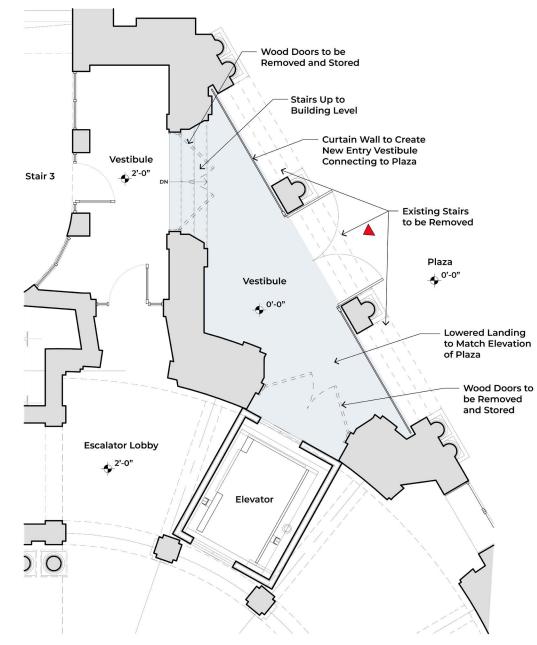
#### **Project Goal**

Create a welcoming, accessible entrance in a central arrival location between TMCO and TMCX for the congregation and visitors to allow 24/7 access from the garage and the plaza.



Three Bay Vestibule

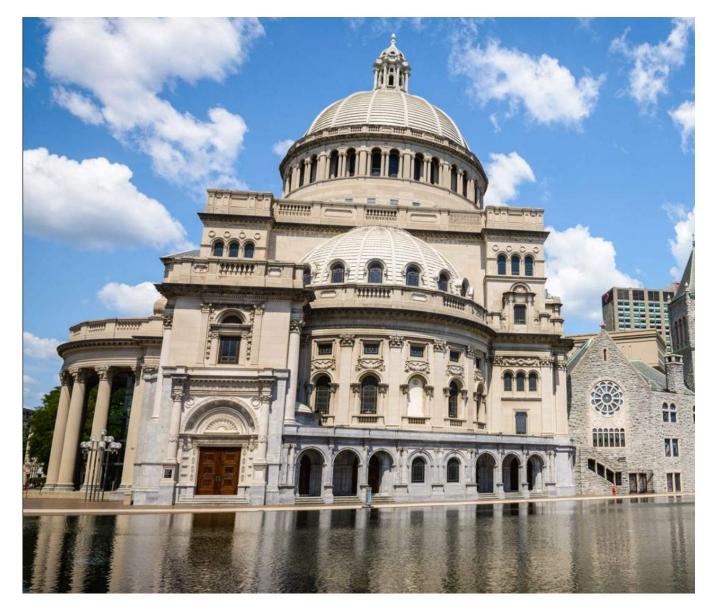




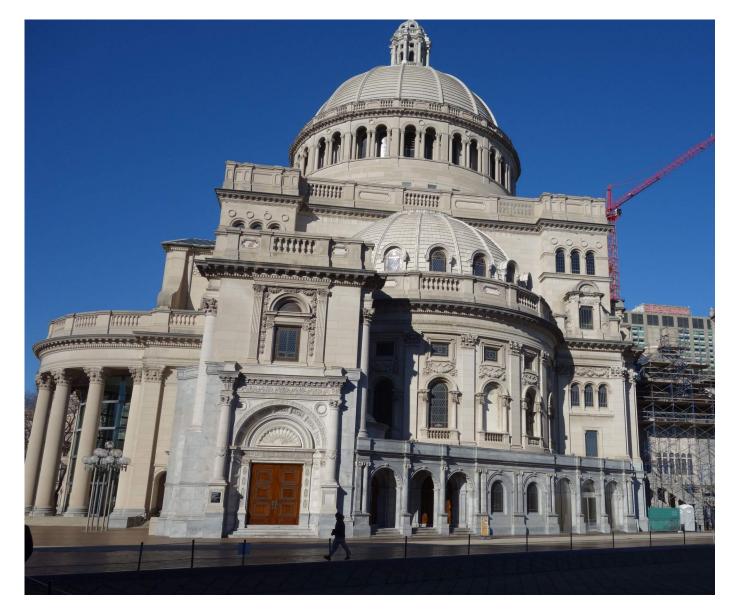
Plan – Existing

**Plan – Modified Option** 

# Existing Elevations - Three Bay Vestibule Bead-blasted Stainless Steel and Glass Enclosure



SOUTH ELEVATION

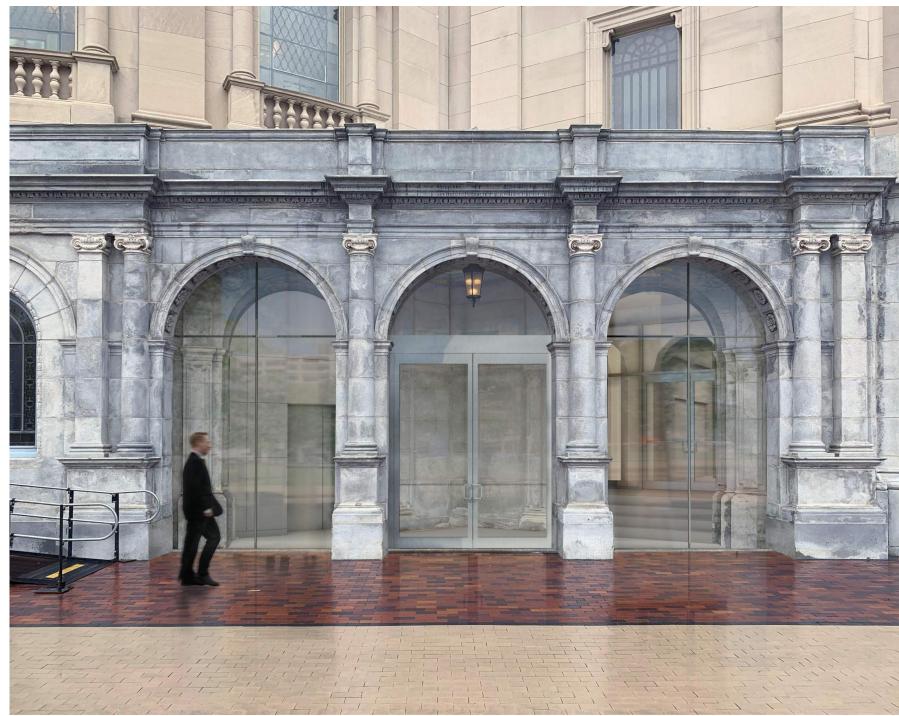


SOUTH ELEVATION - RENDERING

### South Elevation Rendering Bead-blasted Stainless Steel and Glass Enclosure



### South Elevation Rendering - Day Bead-blasted Stainless Steel and Glass Enclosure



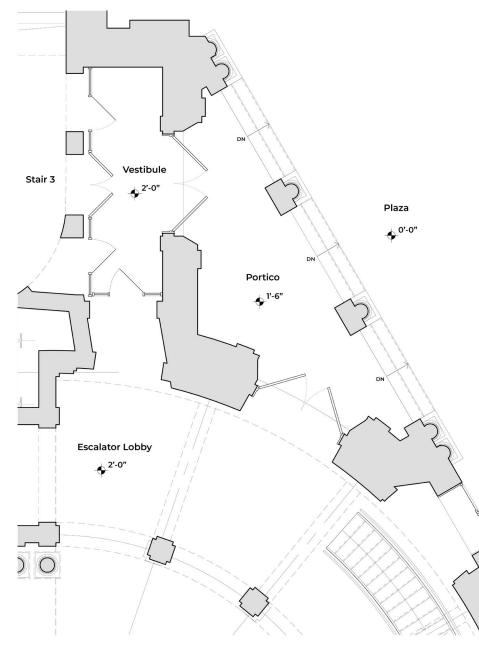


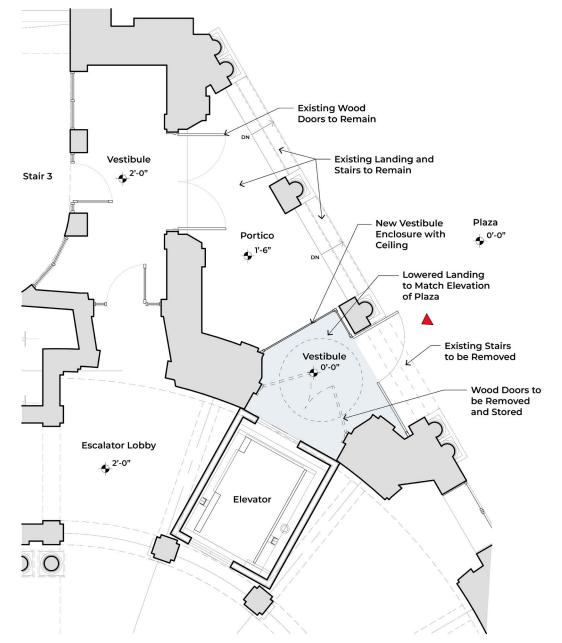
### South Elevation Rendering - Dusk Bead-blasted Stainless Steel and Glass Enclosure





### One Bay Vestibule



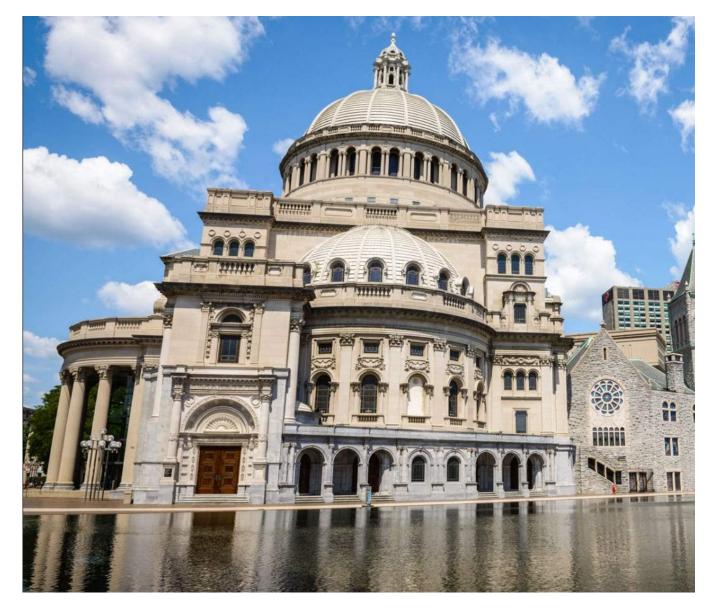


Plan – Existing

Required Adjustments to Make BLC Suggestions Feasible



# Existing Elevations - One Bay Vestibule Bead-blasted Stainless Steel and Glass Enclosure



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SOUTH ELEVATION - RENDERING

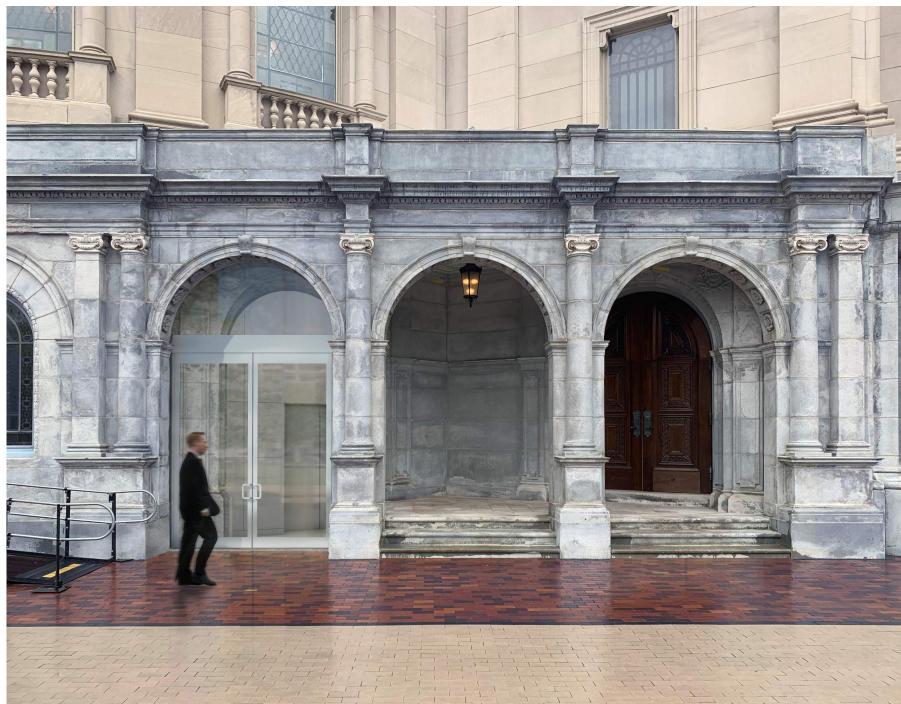
SOUTH ELEVATION



### South Elevation Rendering Bead-blasted Stainless Steel and Glass Enclosure



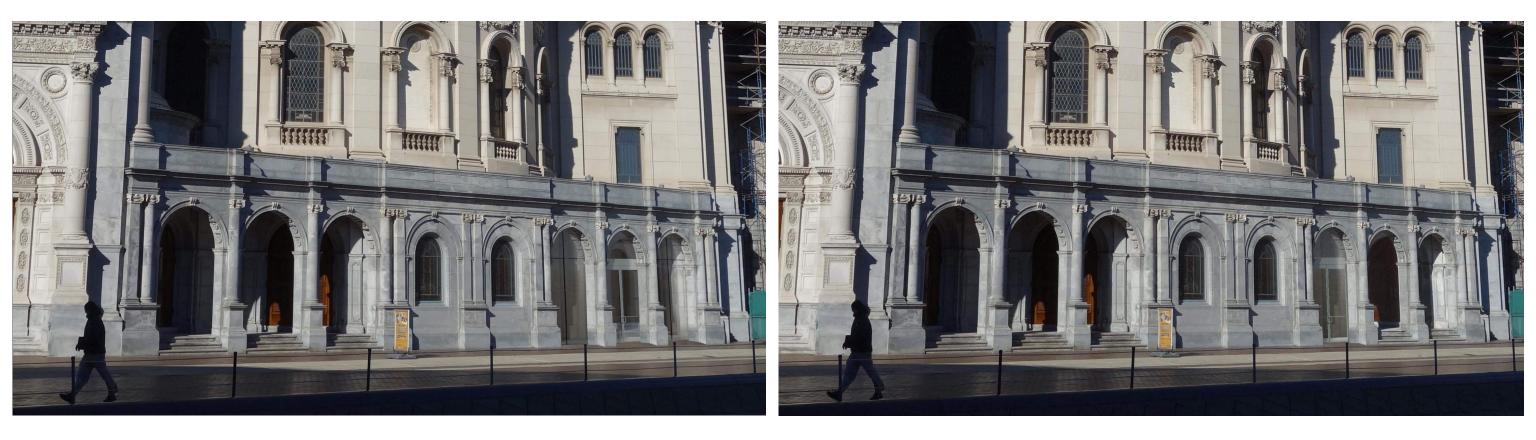
### South Elevation Rendering - Day Bead-blasted Stainless Steel and Glass Enclosure





### South Elevation Renderings - Three Bay vs. One Bay

Bead-blasted Stainless Steel and Glass Enclosure



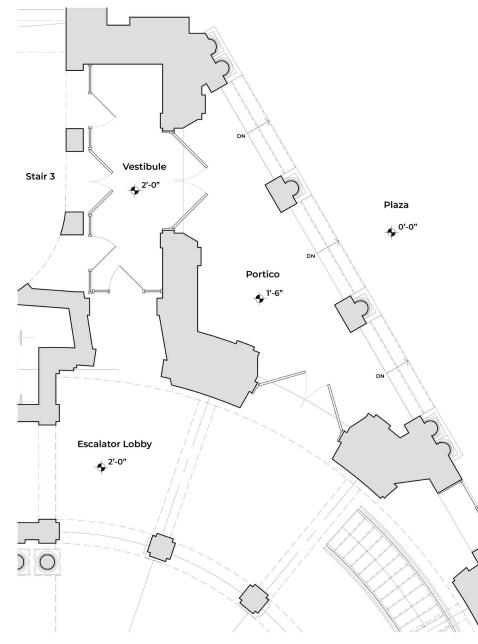
### South Elevation Renderings - Three Bay vs. One Bay

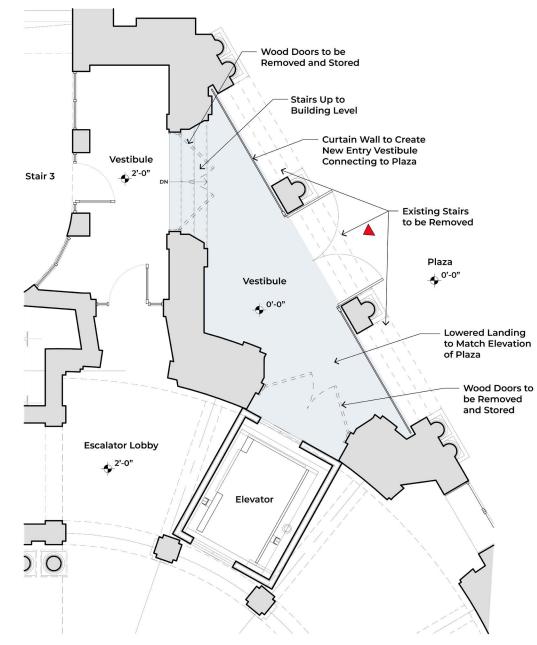
Bead-blasted Stainless Steel and Glass Enclosure



## Alternate Materials

Three Bay Vestibule

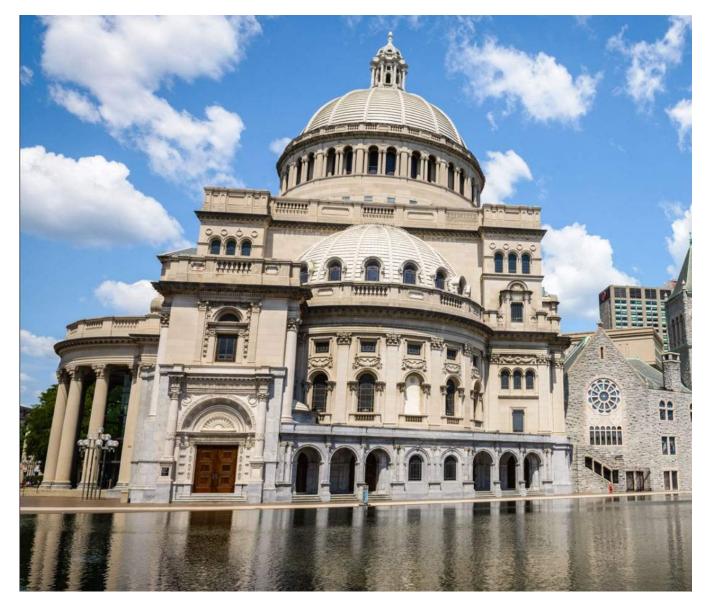




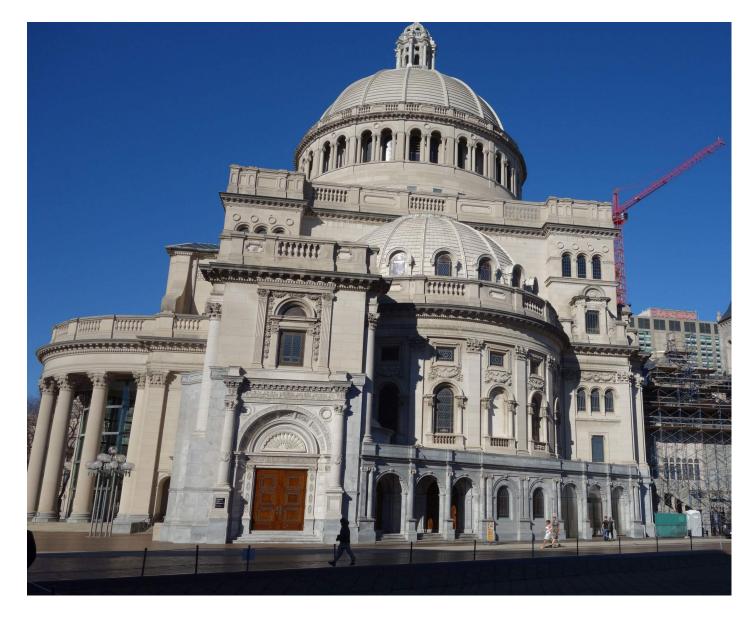
Plan – Existing

**Plan – Modified Option** 

# Existing Elevations - Three Bay Vestibule Bronze and Glass Enclosure



SOUTH ELEVATION

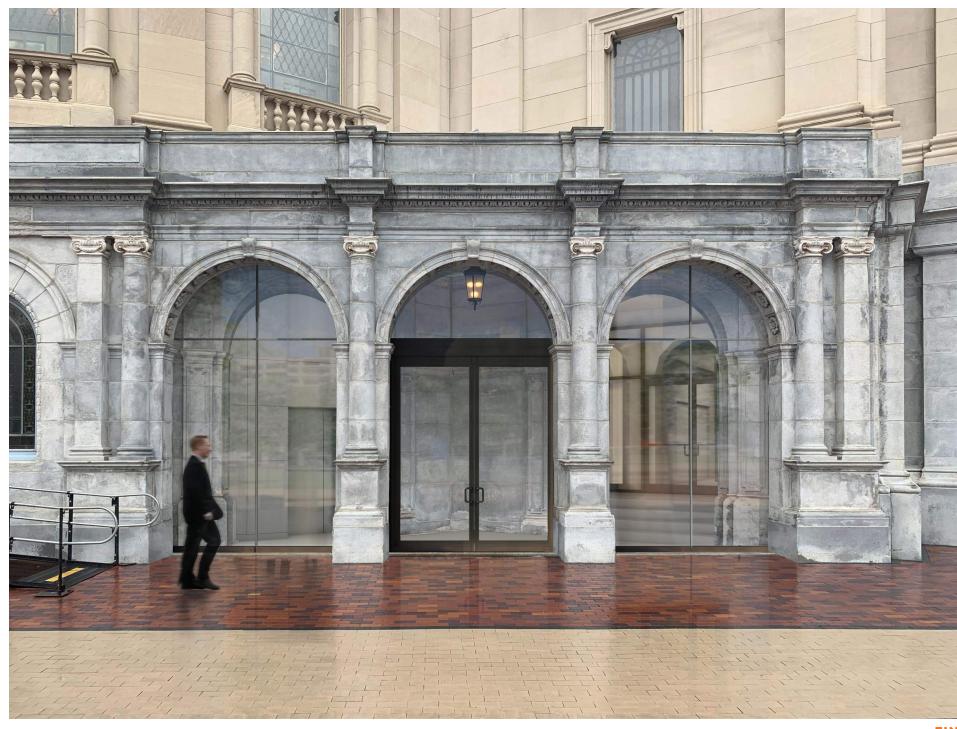


SOUTH ELEVATION - RENDERING

### South Elevation Rendering Bronze and Glass Enclosure



### South Elevation Rendering - Day Bronze and Glass Enclosure

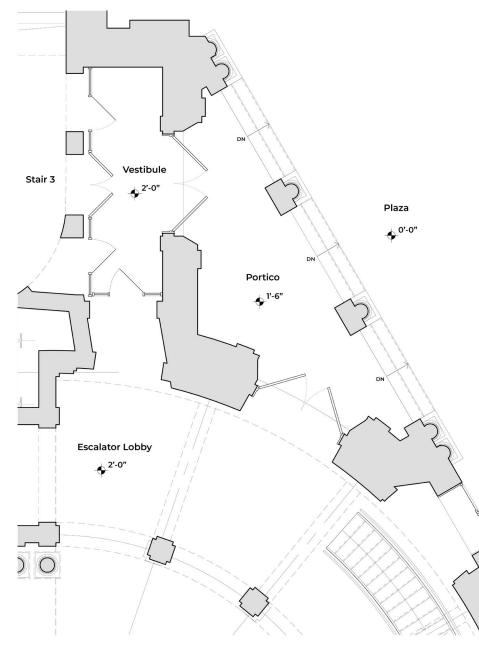


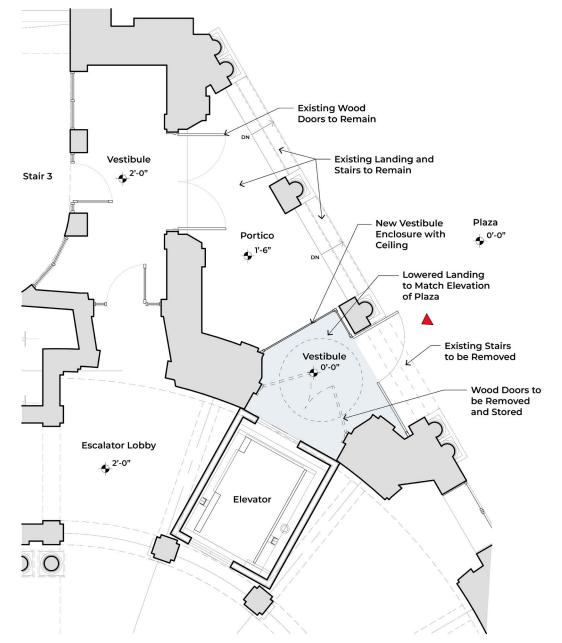
## South Elevation Rendering - Dusk Bronze and Glass Enclosure





### One Bay Vestibule





Plan – Existing

Required Adjustments to Make BLC Suggestions Feasible



# Existing Elevations - One Bay Vestibule Bronze and Glass Enclosure

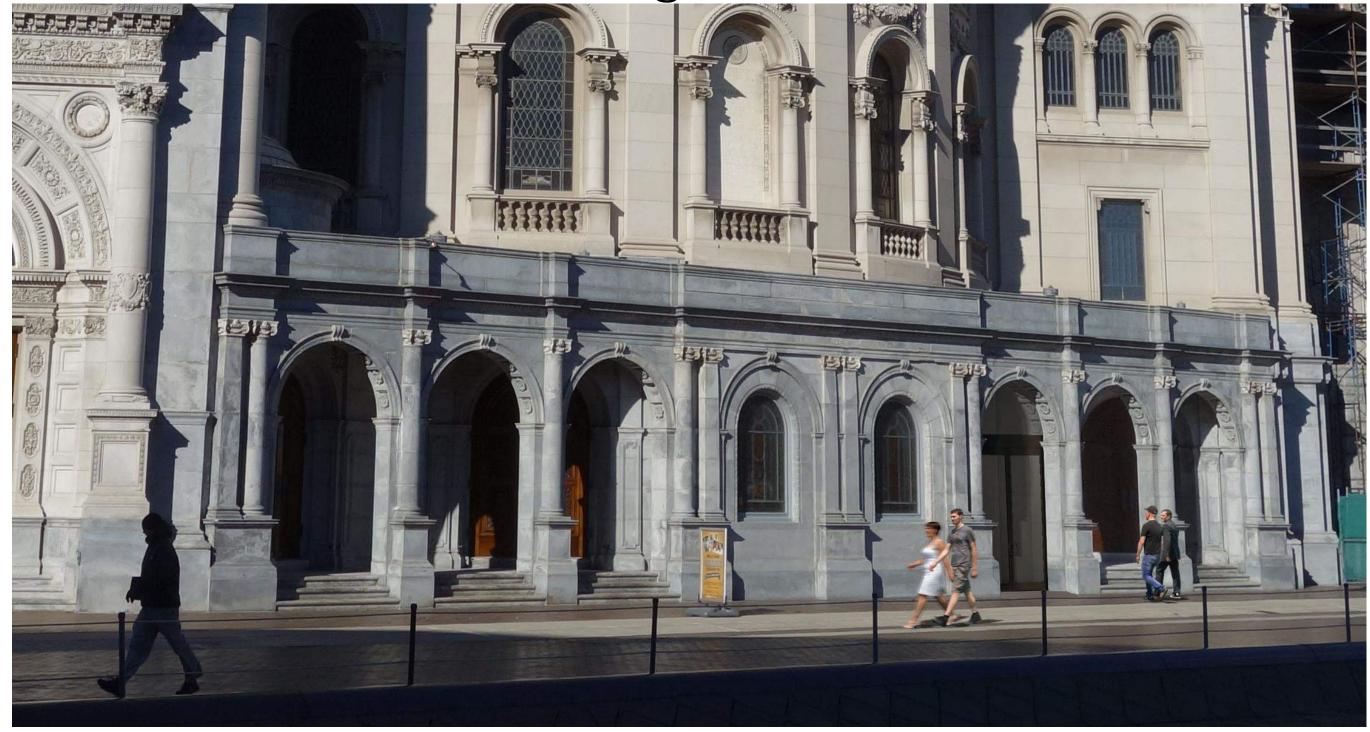


SOUTH ELEVATION - RENDERING

SOUTH ELEVATION



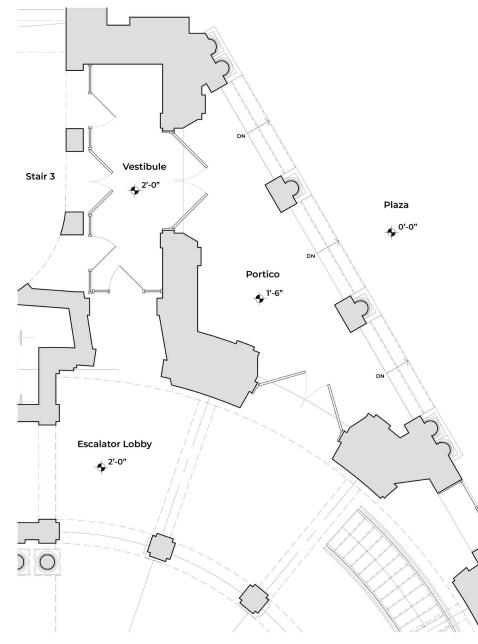
### South Elevation Rendering Bronze and Glass Enclosure

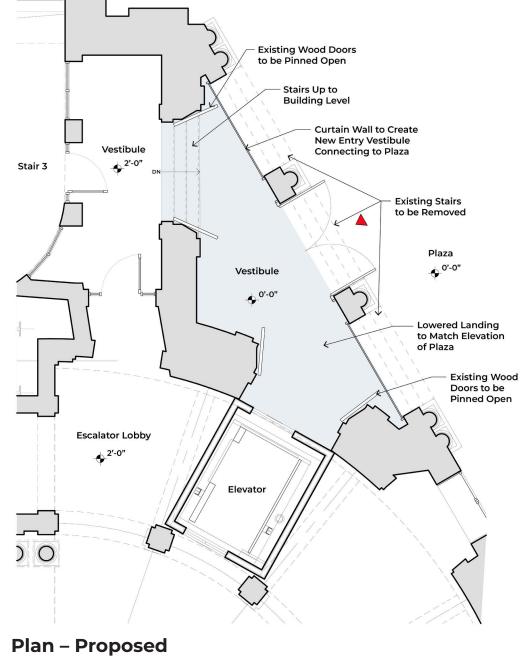


**For Reference Only** Not Intended to be Reviewed at Hearing Unless Necessary to Answer Any Questions

### Modified Design Concept Presented at September 28, 2021 Boston Landmarks Commission Hearing

## **Original Design Concept**





Plan – Existing

### **Original Design Concept**

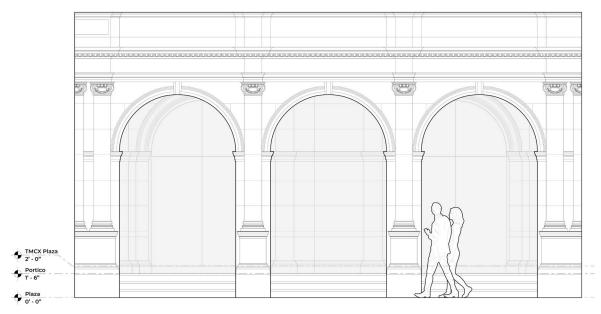




**3D Conceptual View – Existing** 

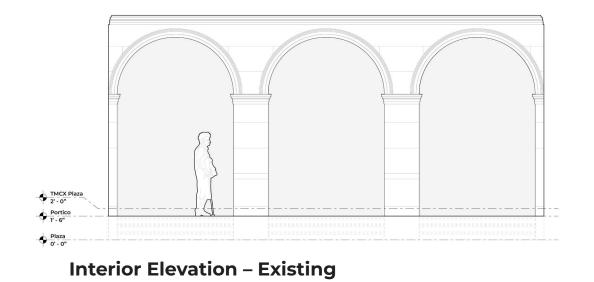
**3D Conceptual View – Proposed** 

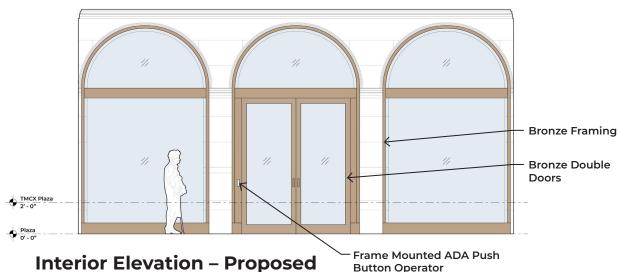
## **Original Design Concept**



**Exterior Elevation – Existing** 

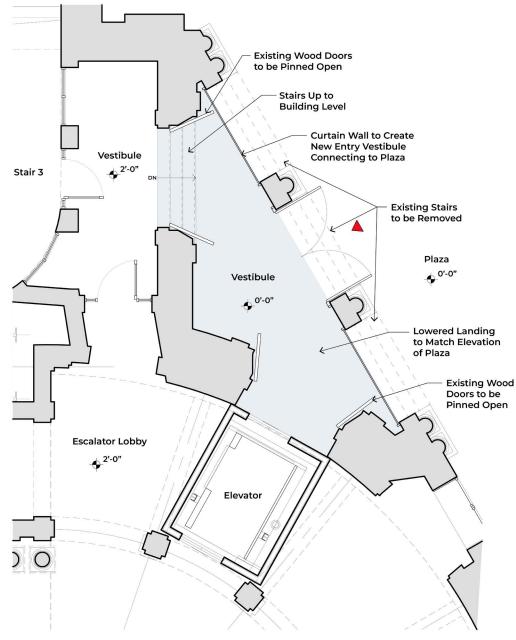




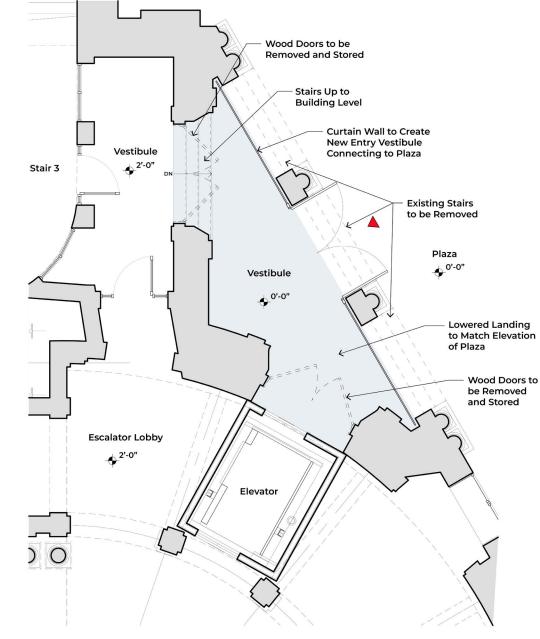


- Bronze Double Doors

**Button Operator** 



Plan – Original Option



**Plan – Modified Option** 

#### PROS

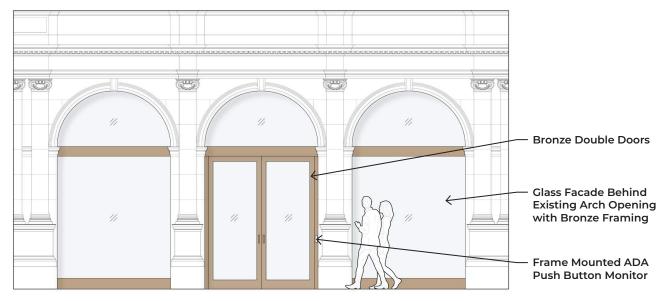
- + Symmetrical exterior elevation treatment, similar to the Mass Ave portico lobby.
- + Provides a weather controlled accessible entry from the plaza.
- + Allows for 24/7 accessible access to both the plaza and garage.
- + Creates a safe and inviting public entry for visitors and congregants to both TMCO and TMCX.
- + Minimal attachment points for new glass storefront to back side of arched openings.
- + New interventions are reversible.

#### CONS

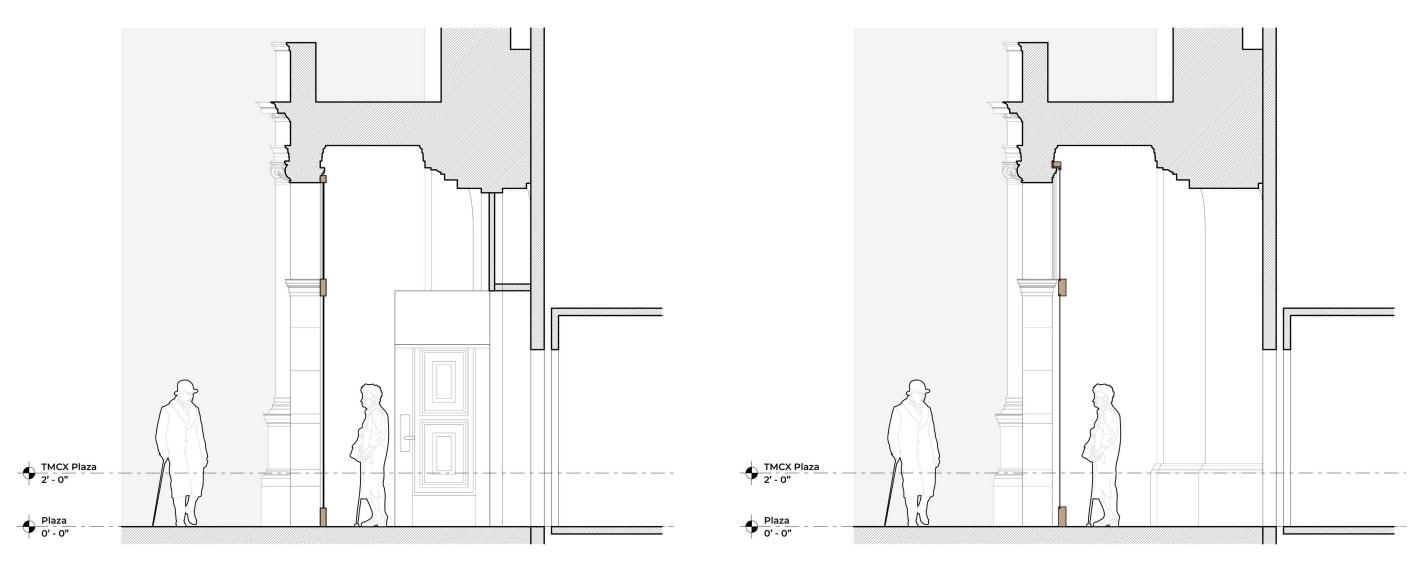
- Two sets of existing wood doors would need to be removed and stored.
- Introduces new material (glass) to the architectural vocabulary of this area of the church.
- Lowers portico/vestibule floor and requires new stone veneer to match existing facade.



#### **Exterior Elevation – Original Option**

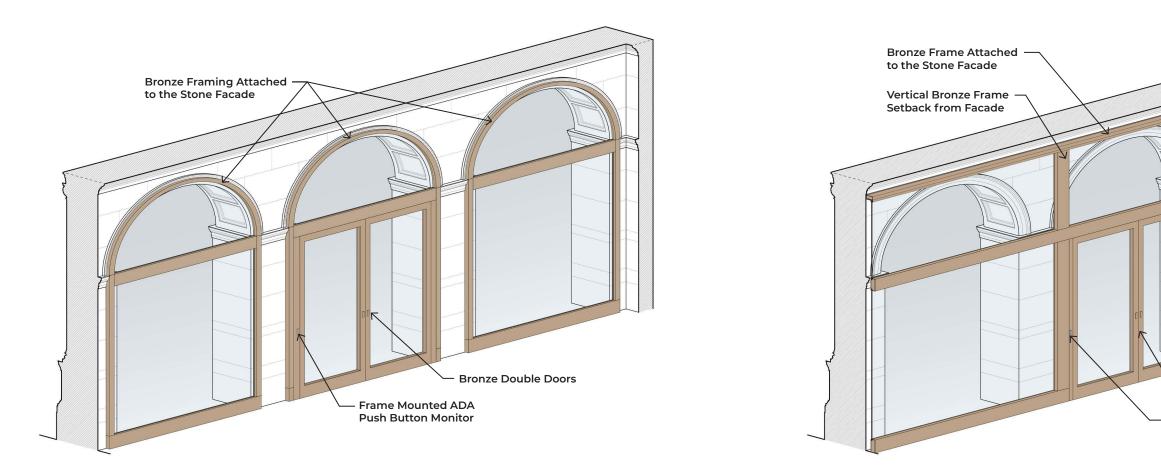


**Exterior Elevation – Modified Option** 



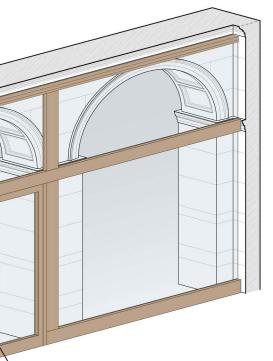
Section at Vestibule and New Elevator – Original Option

Section at Vestibule and New Elevator – Modified Option



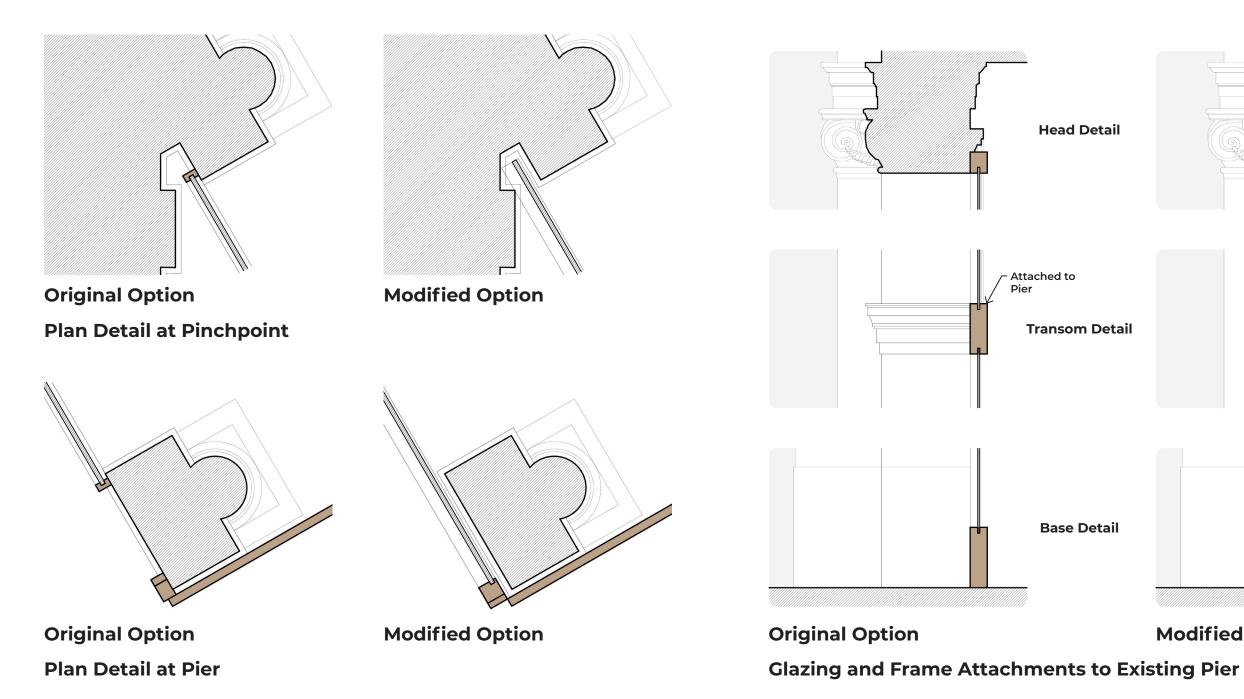
Interior Isometric – Original Option

Interior Isometric – Modified Option



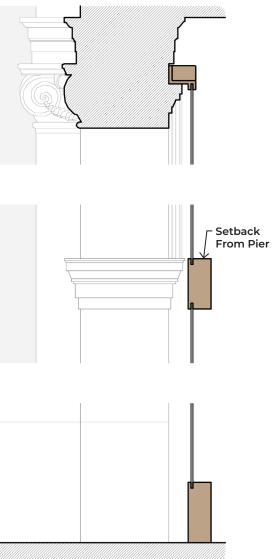
Bronze Double Doors

Frame Mounted ADA Push Button Monitor



FINEGOLD ALEXANDER ARCHITECTS

#### **Modified Option**



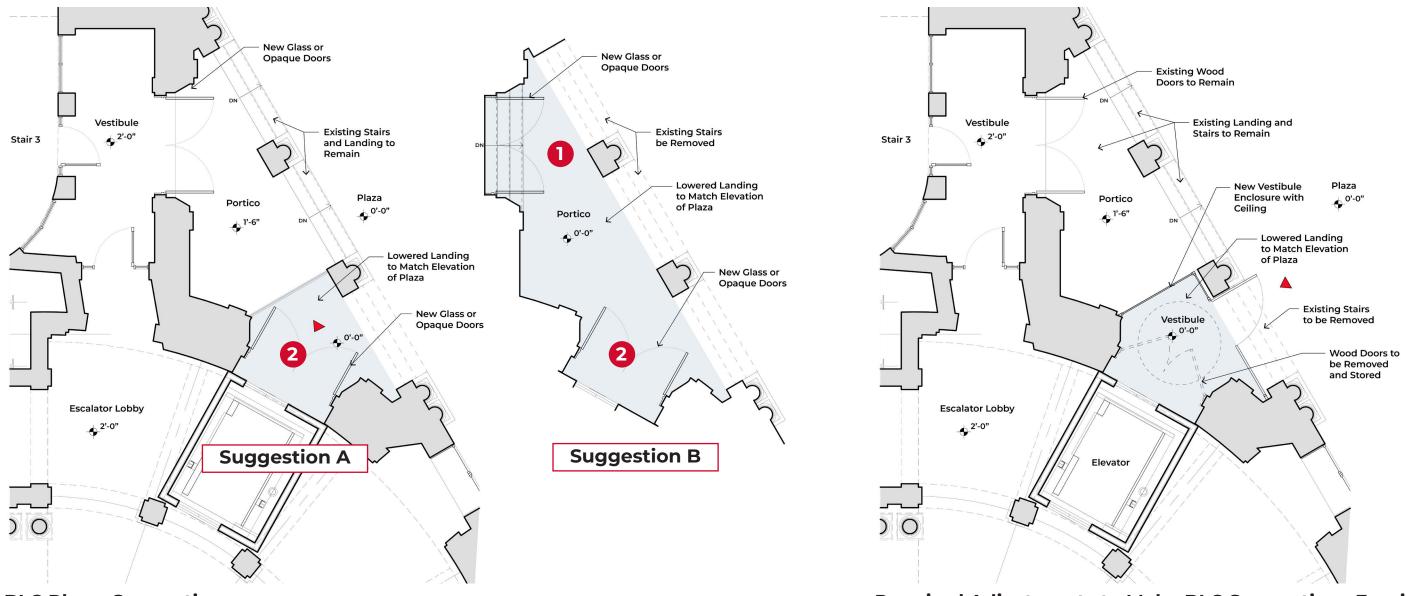
**BLC Suggestions** 

## **BLC Suggestions**

#### **1** Lower Entire Portico:

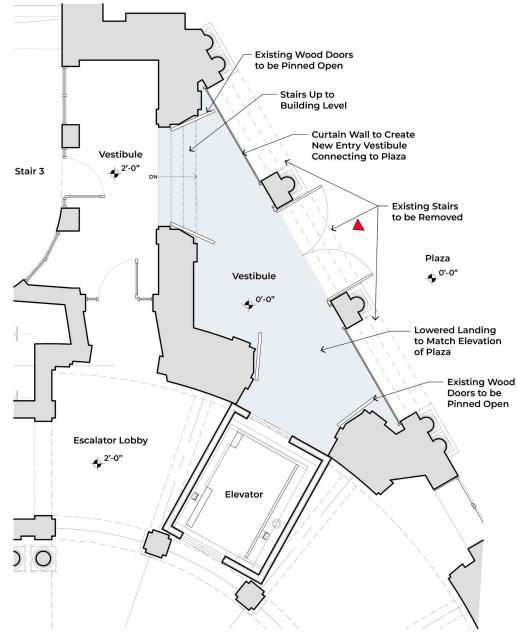
Lowering the portico and placing stairs directly adjacent to the egress doors without a landing is not code compliant. 2 Add Doors in Front of Elevator:

Doors located at an accessible entrance must comply with code and be located 48" min from the elevator doors. Given the geometry of the portico, this is not feasible.

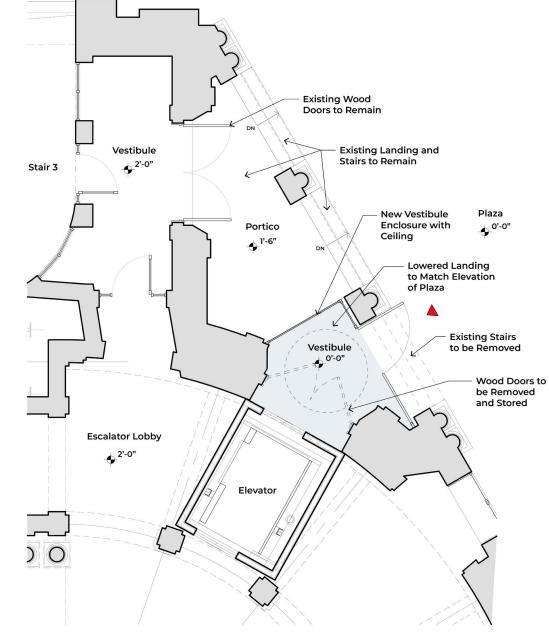


**BLC Plan – Suggestions** 

**Required Adjustments to Make BLC Suggestions Feasible** 



**Plan – Original Option** 



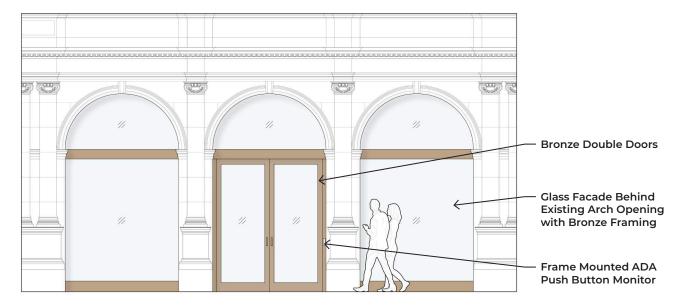
**Required Adjustments to Make BLC Suggestions Feasible** 

#### PROS

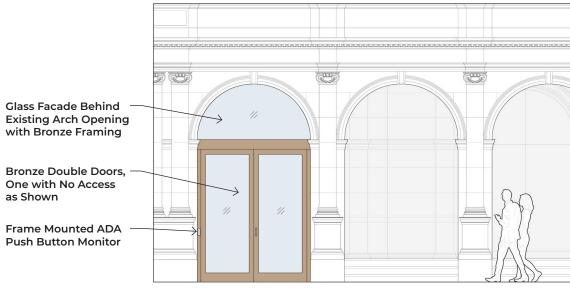
- + (Suggestion A) Provides a symmetrical design solution for this portico.
- + (Suggestions A & B) Does not include new material (glass) to the architectural vocabulary of this area of the church.

#### CONS

- Lowering the portico and placing stairs directly adjacent to the egress doors without a landing is <u>not code compliant</u>.
- Suggested glass doors just in front of elevator doors do not provide required clearances and is <u>not code compliant</u>.
- Exterior exposed elevator is not recommended by elevator expert consultant.
- New vestibule would require permanent alterations to the existing stone facade detail.

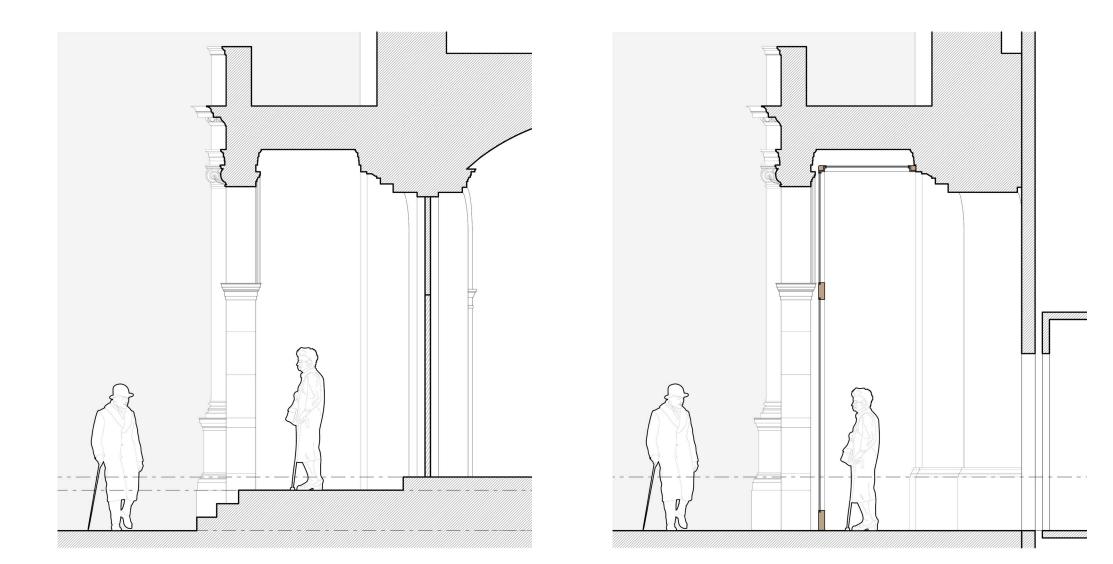


#### **Exterior Elevation – Original Option**



**Exterior Elevation – Required Adjustments** 



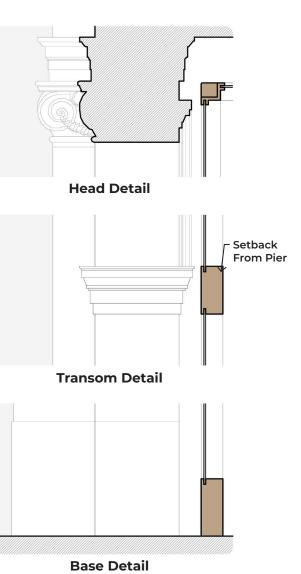


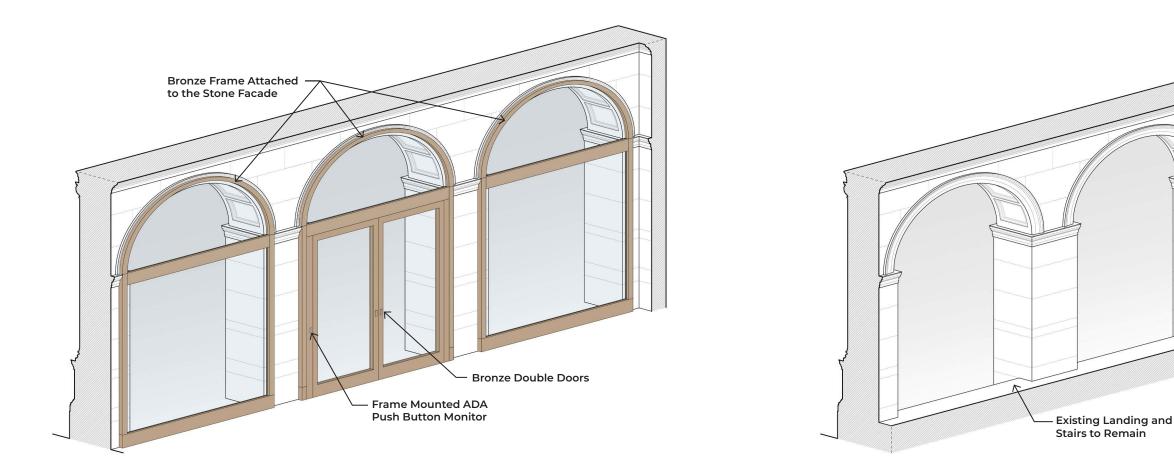
Section at Portico and Interior Vestibule

Section at Vestibule and New Elevator

FINEGOLD ALEXANDER ARCHITECTS

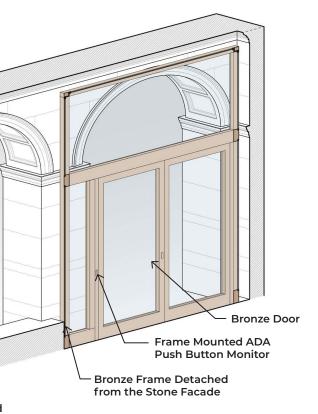
#### **Enlarged Sections at Pier**

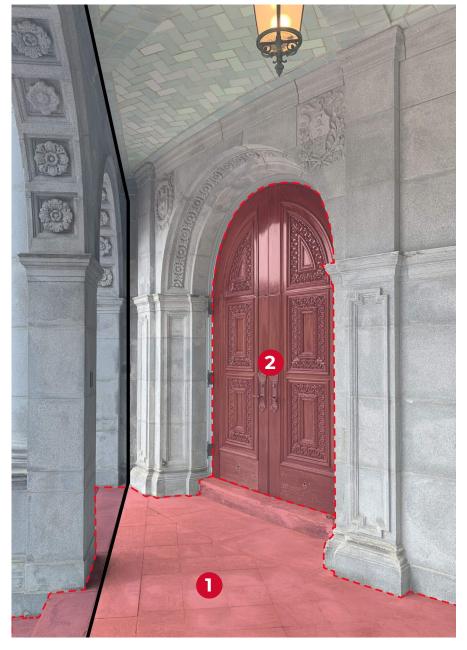




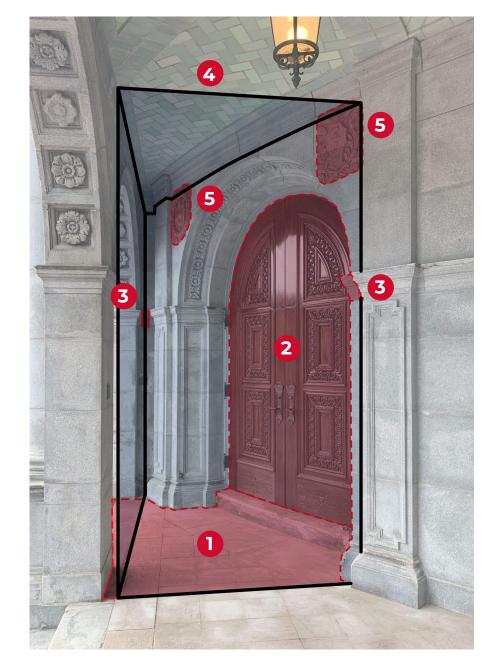
**Interior Isometric – Original Option** 

Interior Isometric – Required Adjustments





Frame Attachments to Existing Stone Modified Option



Frame Attachments to Existing Stone Required Adjustments

 Portico landing to be lowered to match the elevation of the plaza.

2 Existing wood doors to be removed and stored.

**3** Section of capital would need to be removed for vestibule attachment.

Arched Guastavino tiled ceiling to remain as existing.

5 Medallions carved into the stone would need to be removed.

### **Exterior-Grade Elevator Examples**

Elevator at MBTA's Ruggles Station







### Memo from Elevator Manufacturer



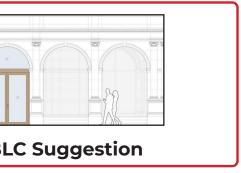
Lerch Bates Regional Consultant

#### **KEY POINTS**

- Any time an elevator opens to the outside; moisture from humidity, rain and snow will get into the elevator cab and hoistway. This degrades the steel throughout and more importantly the electrical components that run throughout the elevator cab and hoistway.
- The hall entrance that is exposed to the outside, along with the cab flooring and cab panels all need to be stainless steel and preferably coated to protect them from corrosion from moisture and winter salt chemicals.
- The current elevator industry shutdown rate is 4 times per year per elevator. Elevators that are exposed to the elements far surpass this metric, the units at the MBTA that experience these conditions experience shutdowns every few weeks which equates to over 12 shutdowns per exterior elevator.
- All new station designs require vestibule enclosures for their equipment to protect it from future harm.
- Ultimately, as elevator experts working around the world, we advise our clients against installing exterior opening elevators without a vestibule enclosure

### **Design Options Matrix**

	Original Option	Modified Option	BL
Pros	<ul> <li>+ Provides a 24/7 weather controlled accessible entry from plaza.</li> <li>+ Provides a symmetrical design solution for this portico.</li> </ul>	<ul> <li>+ Provides a symmetrical design solution for this portico.</li> <li>+ Provides a 24/7 weather controlled accessible entry from plaza.</li> <li>+ Minimal attachment points from glass storefront to back of arched openings.</li> <li>+ New interventions are reversible.</li> </ul>	+ (Suggestion A design solution + (Suggestions include new r architectural of the church
Cons	<ul> <li>Introduces new material (glass) to the architectural vocabulary of this area of the church.</li> <li>New interventions are not reversible.</li> </ul>	<ul> <li>Two sets of existing wood doors would need to be removed and stored.</li> <li>Introduces new material (glass) to the architectural vocabulary of this area of the church.</li> <li>Lowers portico/vestibule floor and requires new stone veneer to match existing facade.</li> </ul>	<ul> <li>Lowering the p directly adjacen without a landi</li> <li>Suggested glas elevator doors o clearances and</li> <li>Exterior expose recommended consultant.</li> <li>New vestibule y alterations to th detail.</li> </ul>



A) Provides a symmetrical tion for this portico.

ns A & B) Does not v material (glass) to the al vocabulary of this area ch.

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sed elevator is not ed by elevator expert

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