



Washington Headquarters Services Pentagon Reservation

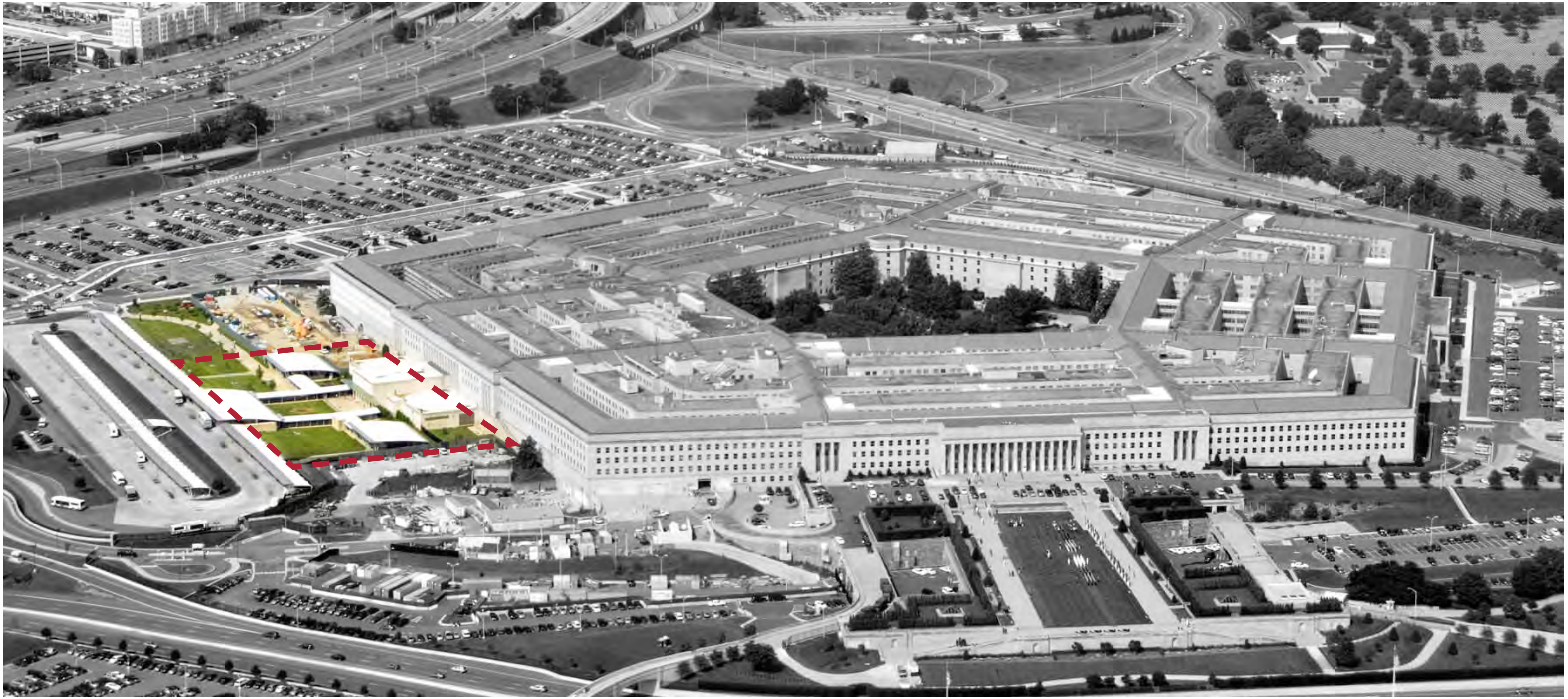
**METRO ENTRANCE PEDESTRIAN ACCESS CONTROL POINT
(MEPACP)**

U.S. Commission of Fine Arts
February 15th, 2024



SITE PLAN | EXISTING

Metro Entrance Facility (MEF) | WMATA Bus Station | Metro Canopies



- The proposed building provides the Pentagon Force Protection Agency with increased capacity and capability to screen employees for potentially hazardous devices prior to entry into the Pentagon.
- The new addition is located next to the existing Metro Entrance Facility (MEF).
- The new 18,400 sf facility will replace the existing screening process to comply with current and future security, life safety, and capacity requirement.
- In accordance with Homeland Security Presidential Directive (HSPD) 12, the MEPACP project will enhance the forms of identification and security used to gain access to secure facilities and provide greater safety and protect of the attending Police officers.

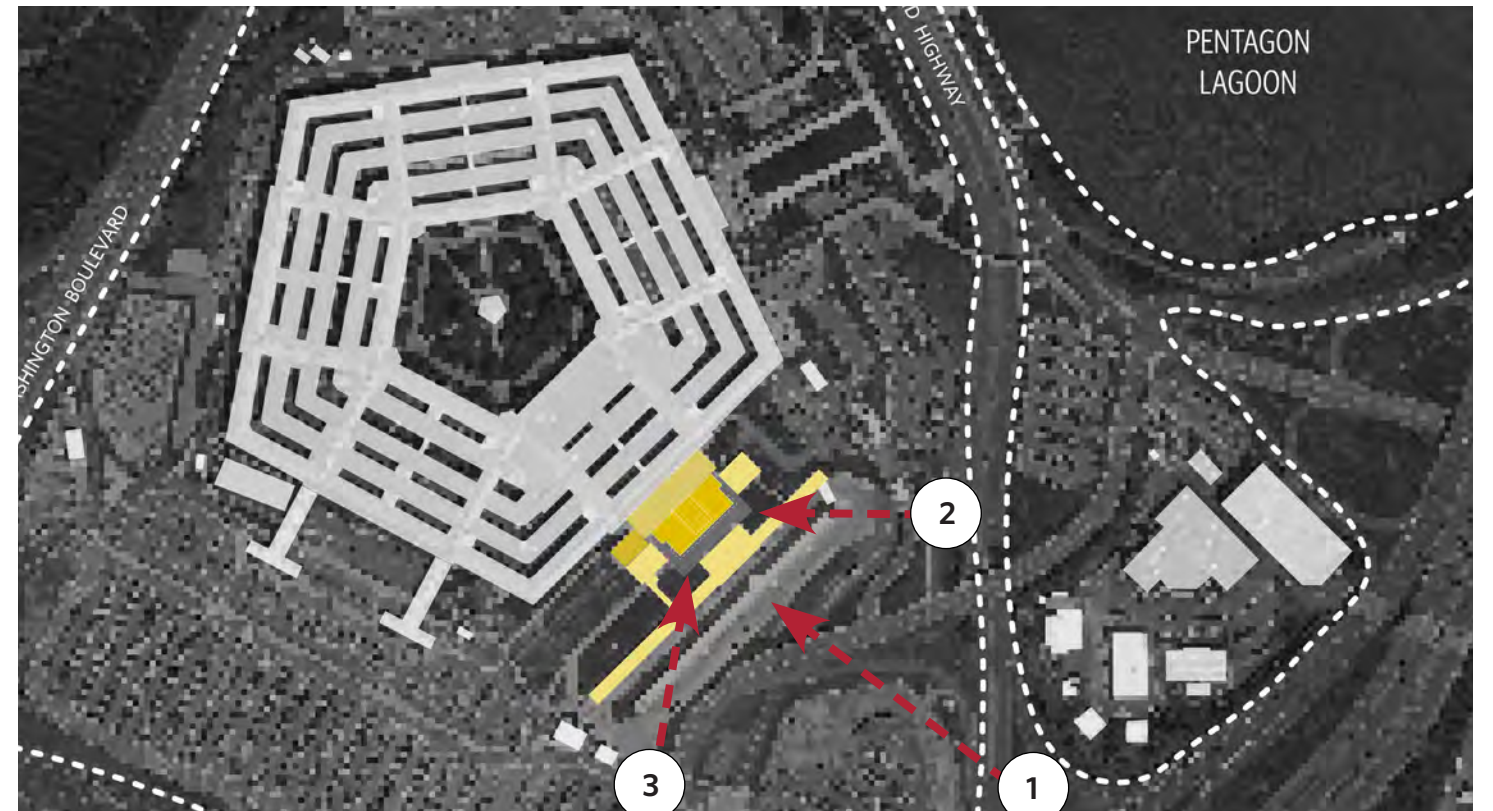
PROJECT SUMMARY



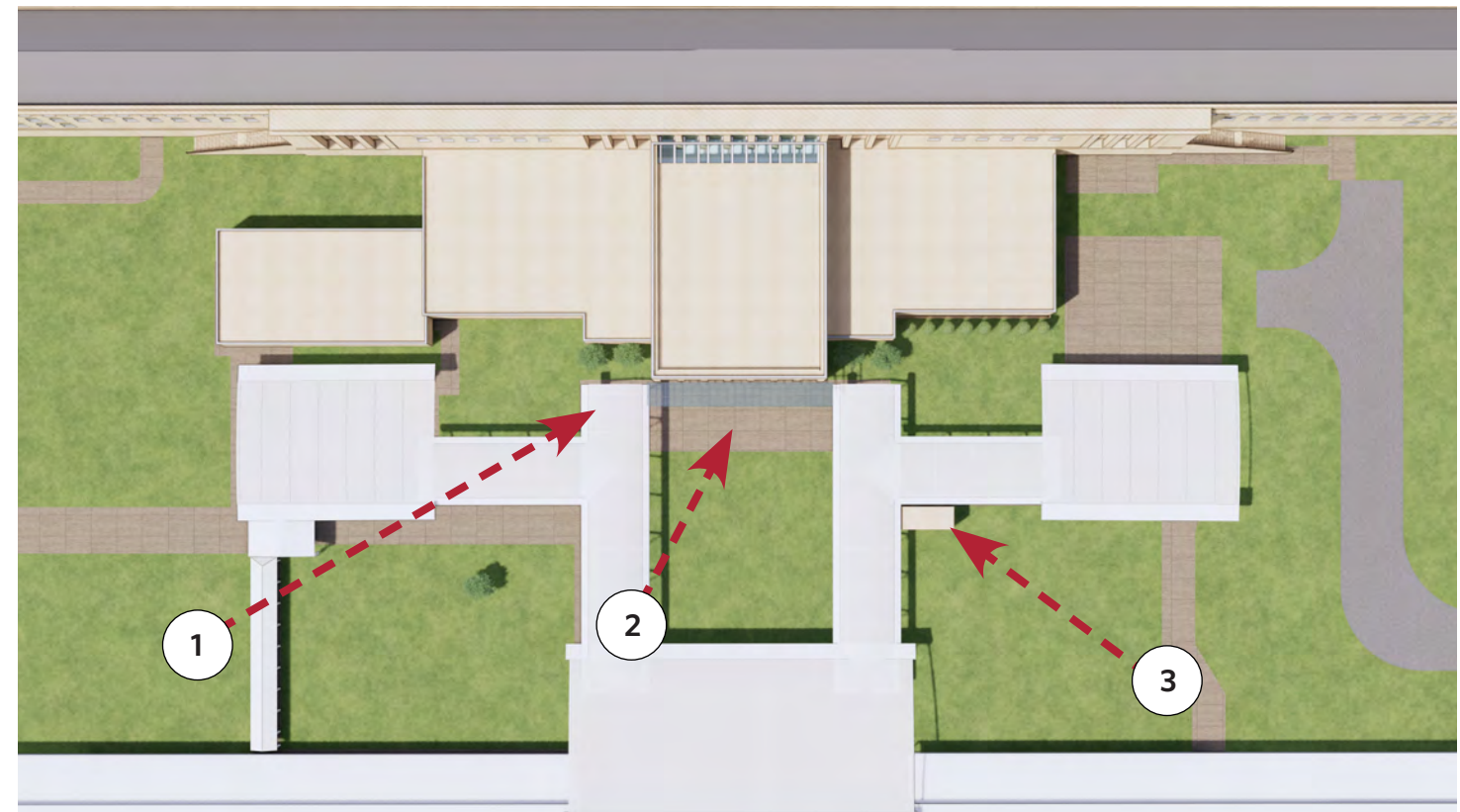
- Presence of WMATA canopies
- Public threshold to the Pentagon
- Consolidation of additive elements on the South side to keep the historical character of River Terrace and Mall Terrace



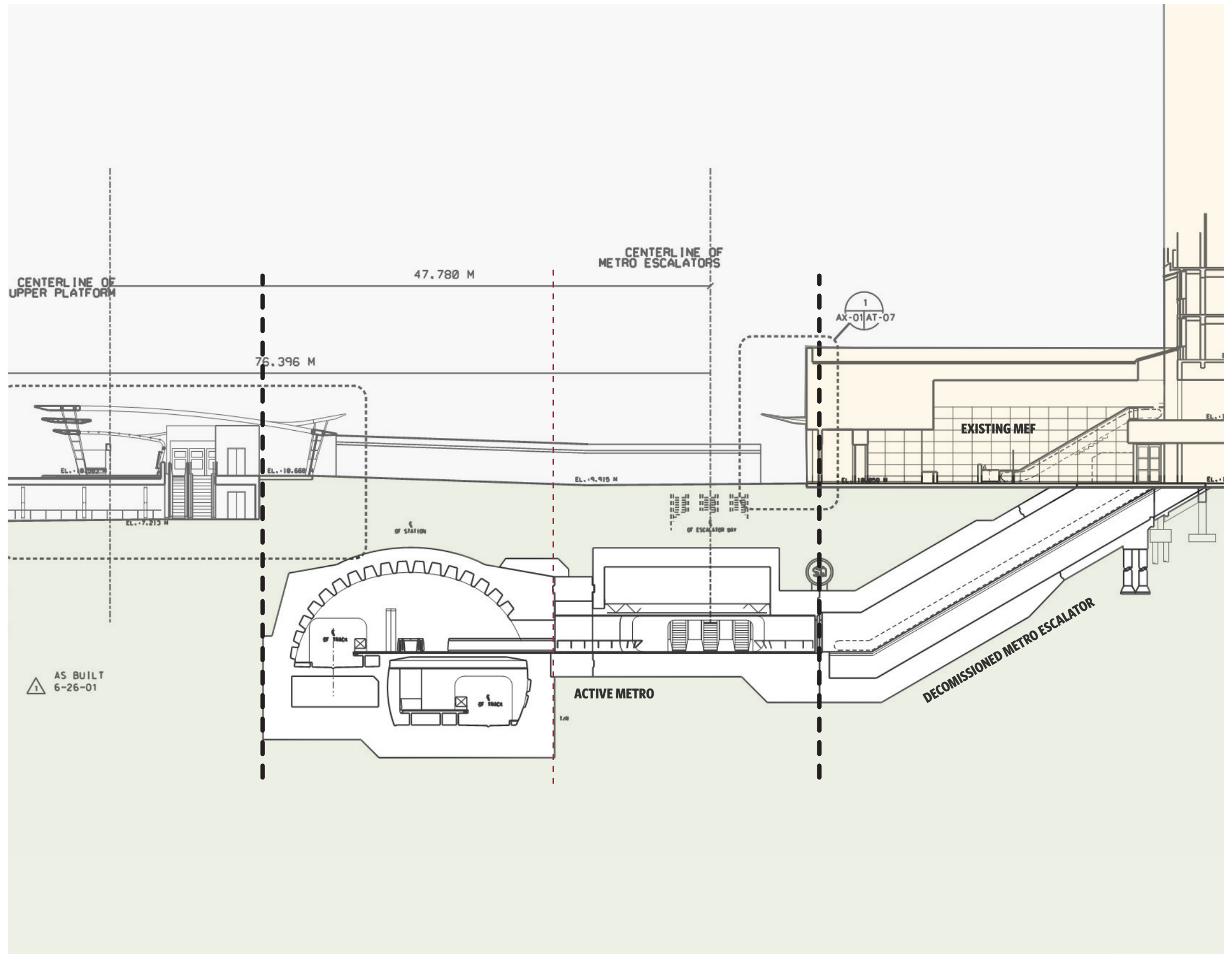
SITE PLAN | EXISTING



SITE PHOTOS | EXISTING



SITE PHOTOS | EXISTING



Limiting the construction boundary to eliminate any impact on the existing Main Metro Tunnel:

- Operation Consistency
- Security Concerns
- Constructibility

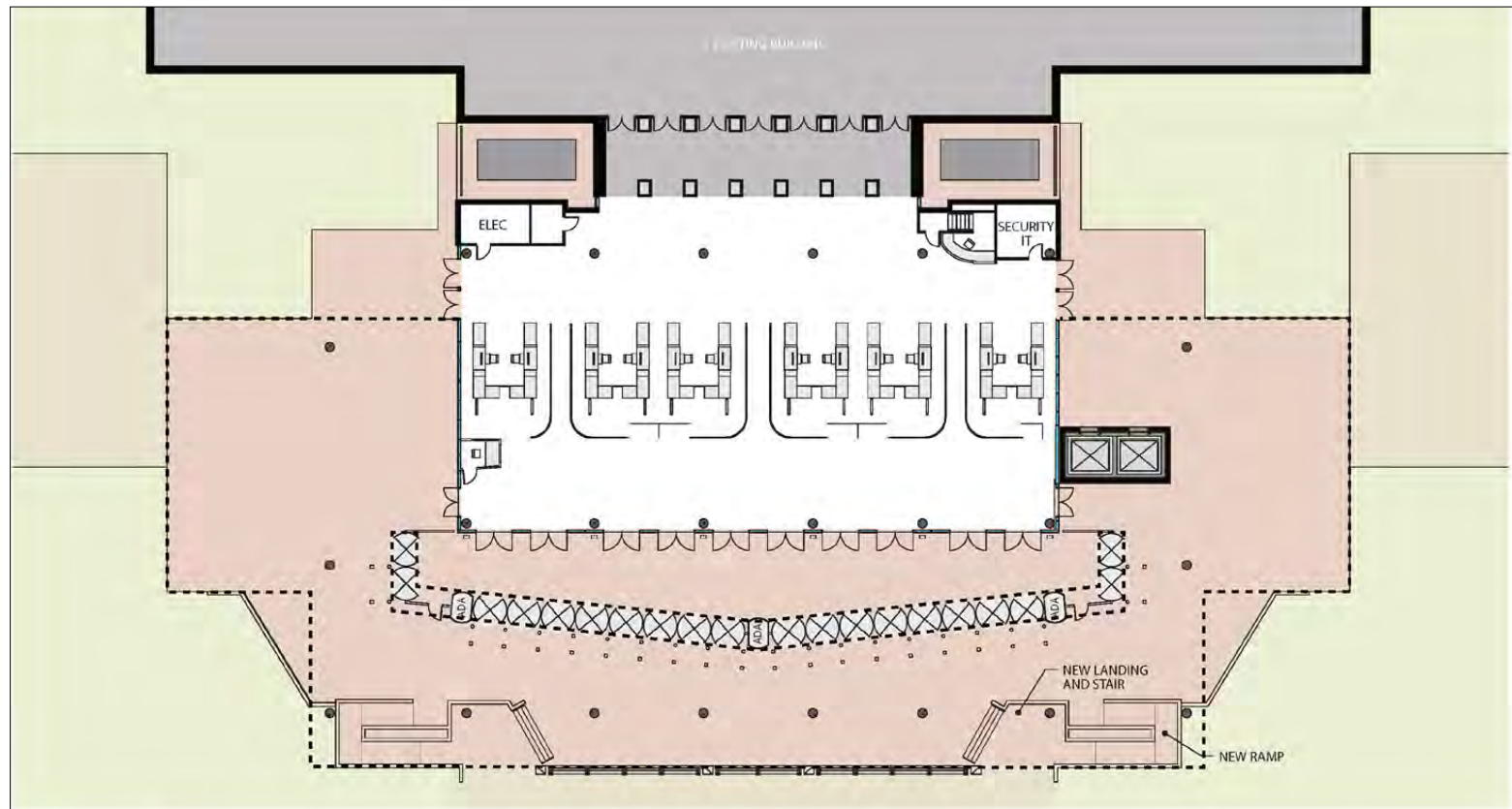
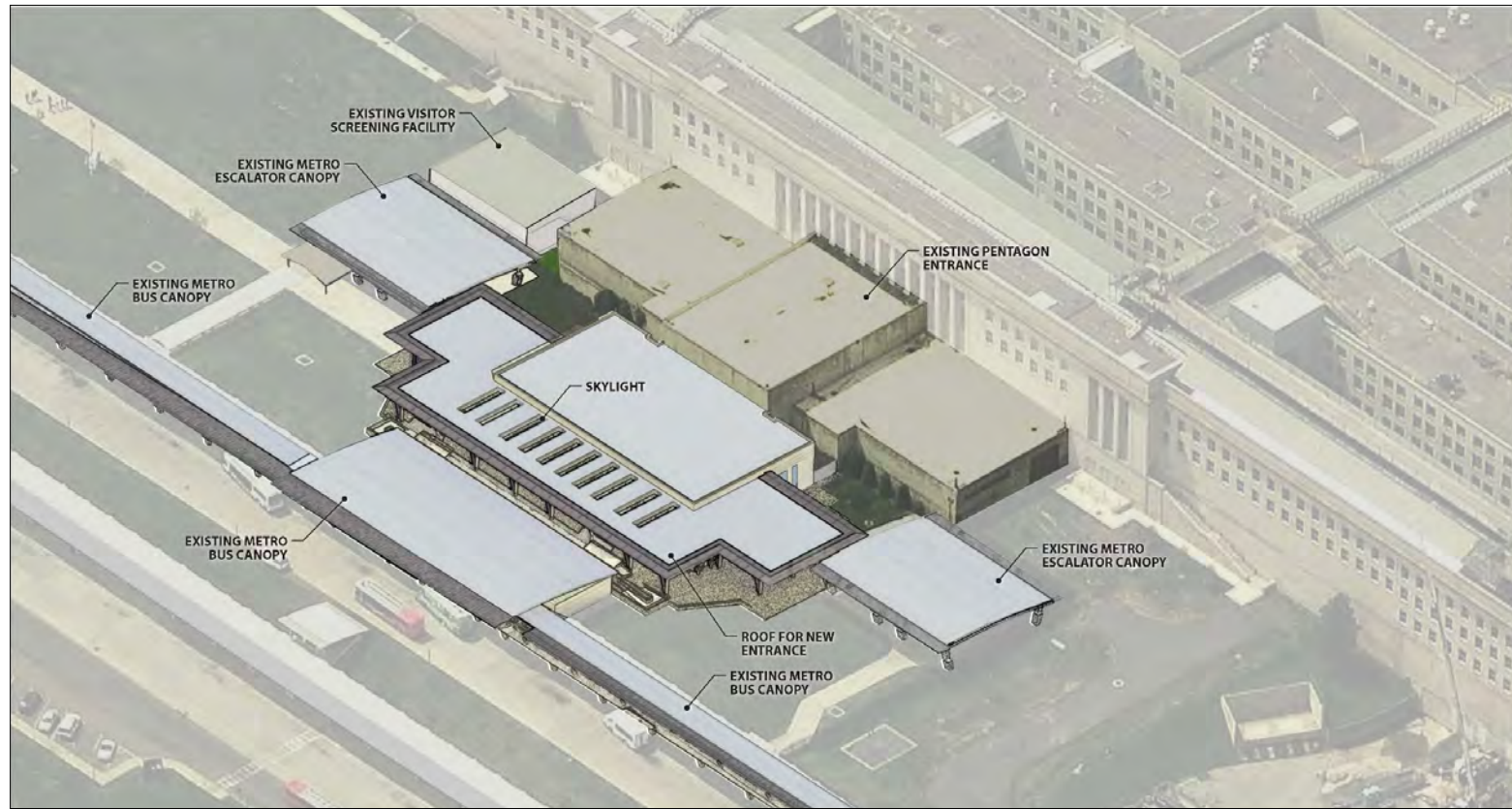
Section Legend

--- Metro Tunnel Boundary

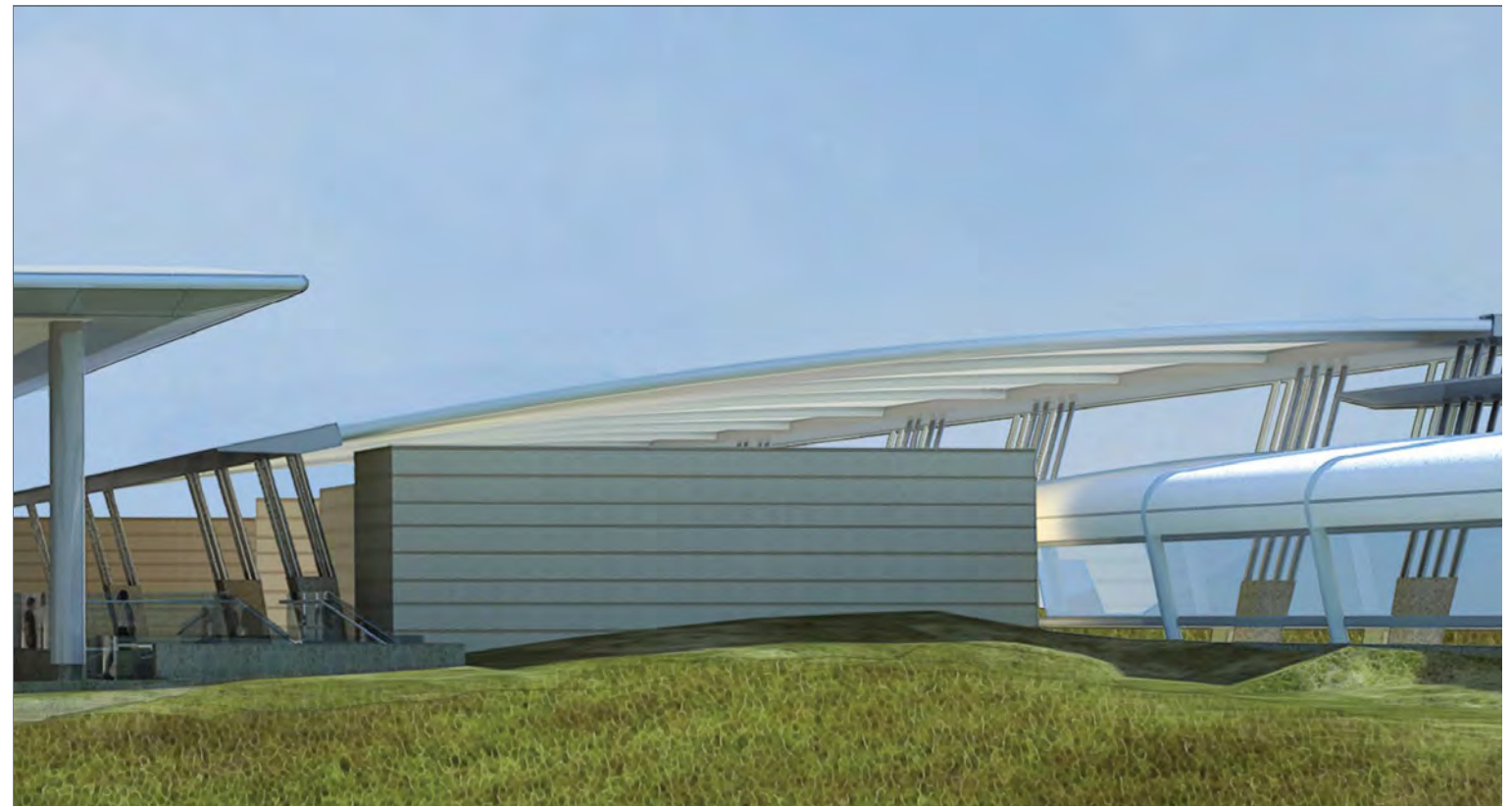
INFLUENCING FACTORS | SECTION



PREVIOUS DESIGN
2017



PREVIOUS DESIGN



PREVIOUS DESIGN

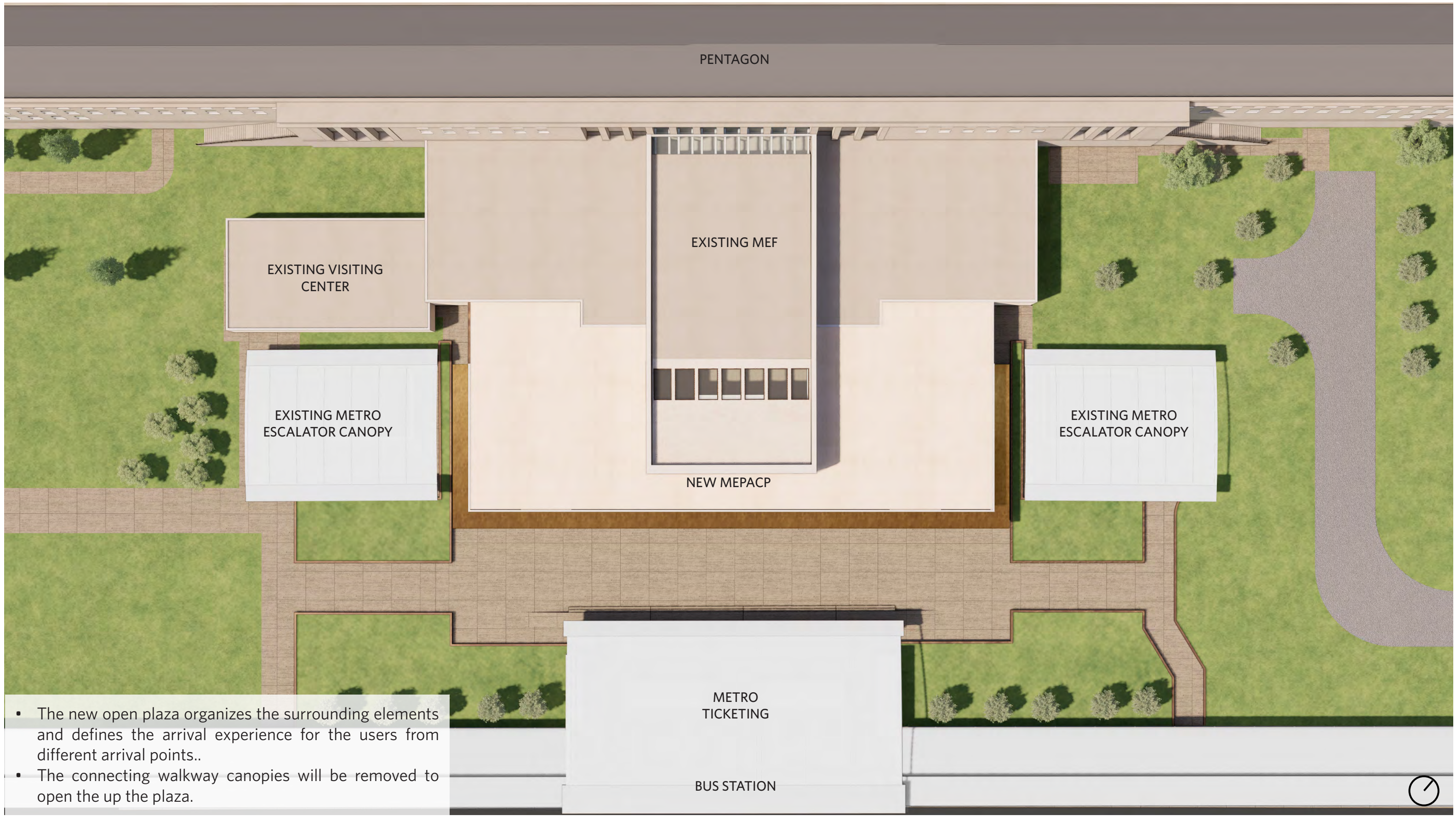


PLANNING



- The compact new facility is located adjacent to existing MEF to simplified the overall massing of additive elements in such a constrained area.

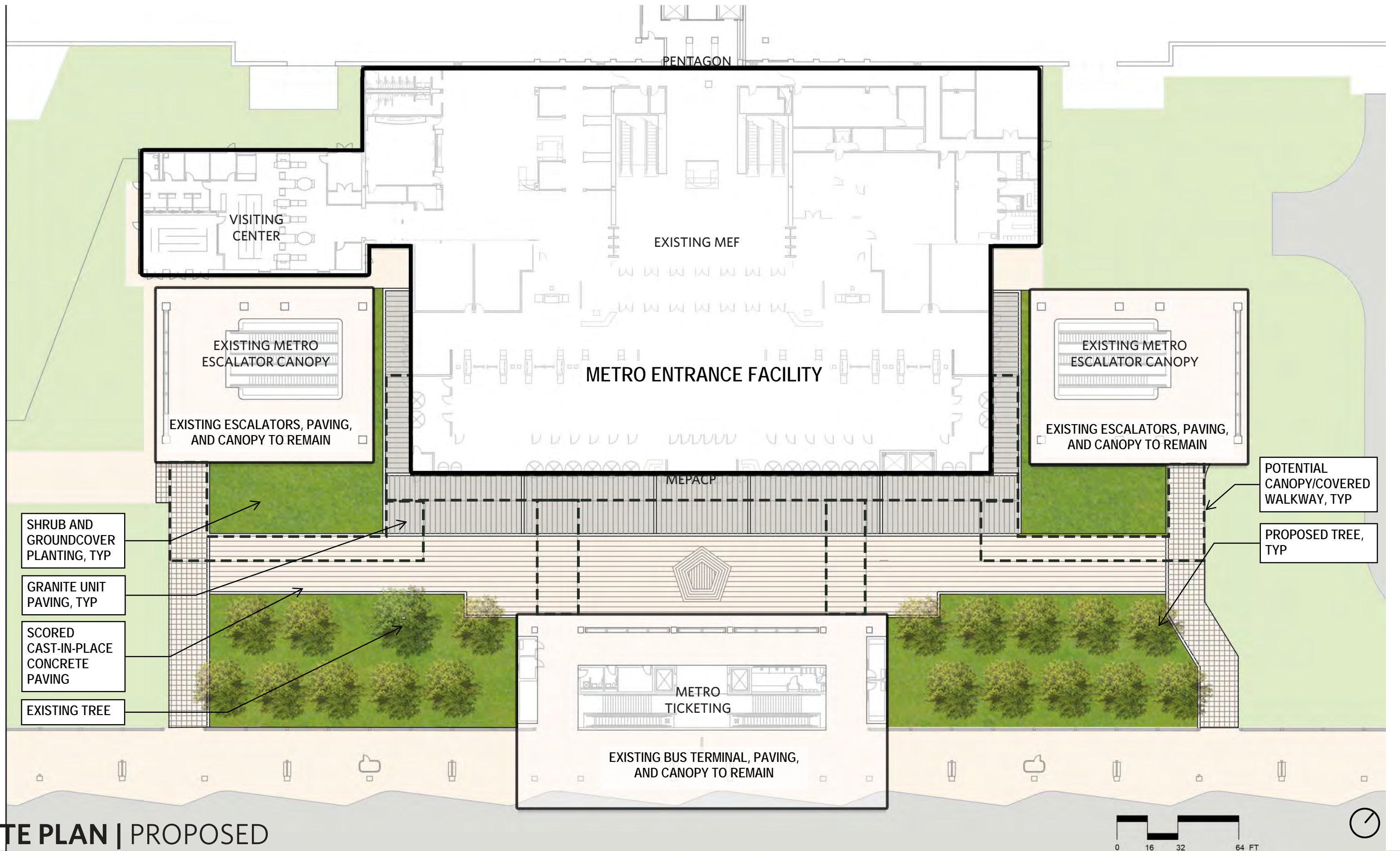
SITE PLAN | PROPOSED



- The new open plaza organizes the surrounding elements and defines the arrival experience for the users from different arrival points..
- The connecting walkway canopies will be removed to open the up the plaza.



SITE PLAN | PROPOSED



SITE PLAN | PROPOSED



- The single compact pavilion is connected directly to existing MEF and create an integrated spatial sequence with an intuitive way finding approach for the users.
- The major security components are placed adequately to meet the complex but critical security requirement of PFPA officers for a secure and optimized operation.

PLAN | PROPOSED

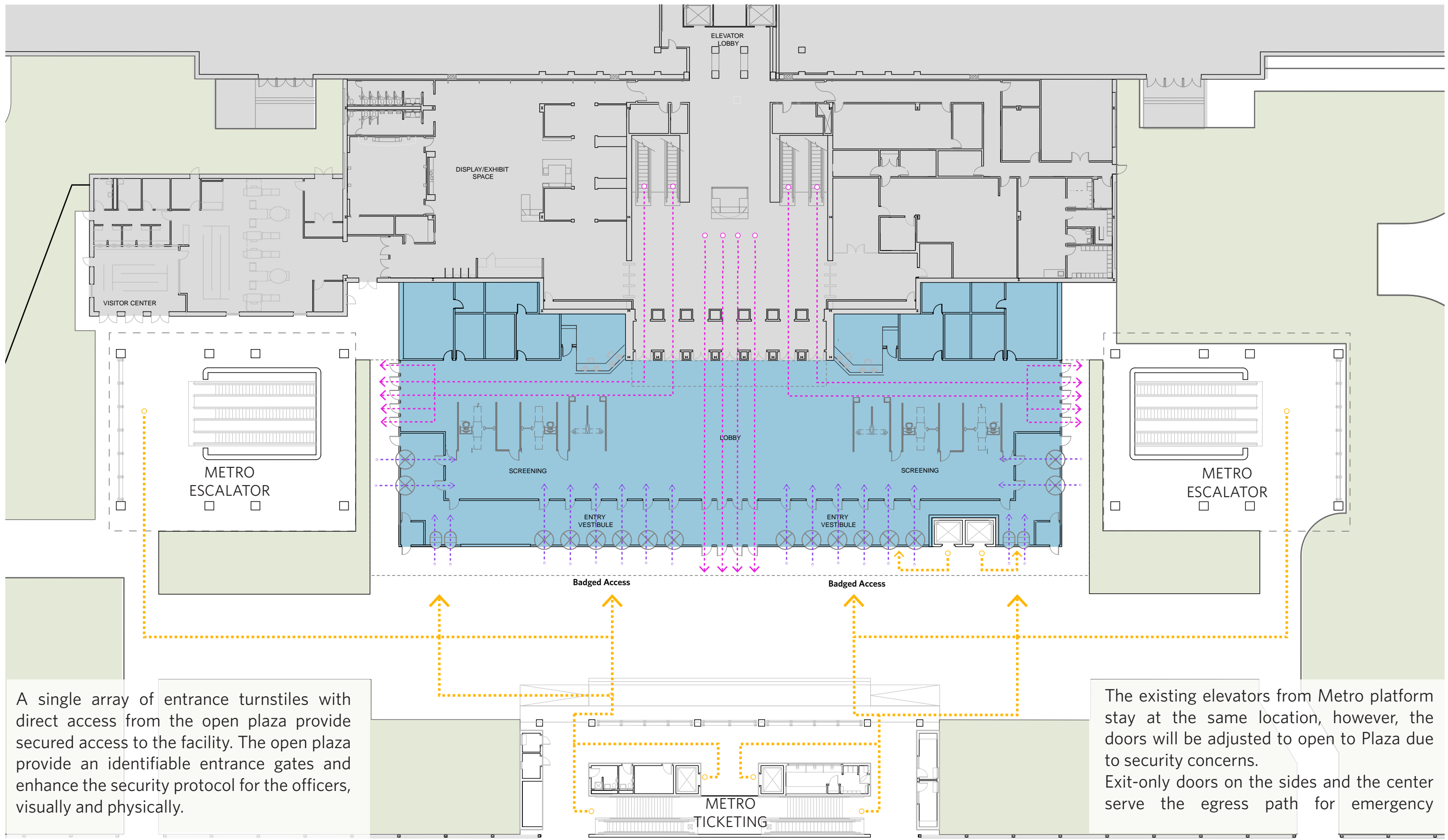


■ PROPOSED MEPACP
■ EXISTING

■ VISITOR CENTER (NOT IN OUR SCOPE)
■ EXHIBIT WAITING AREA (NOT IN OUR SCOPE)

■ BADGING AND OFFICE (NOT IN OUR SCOPE)





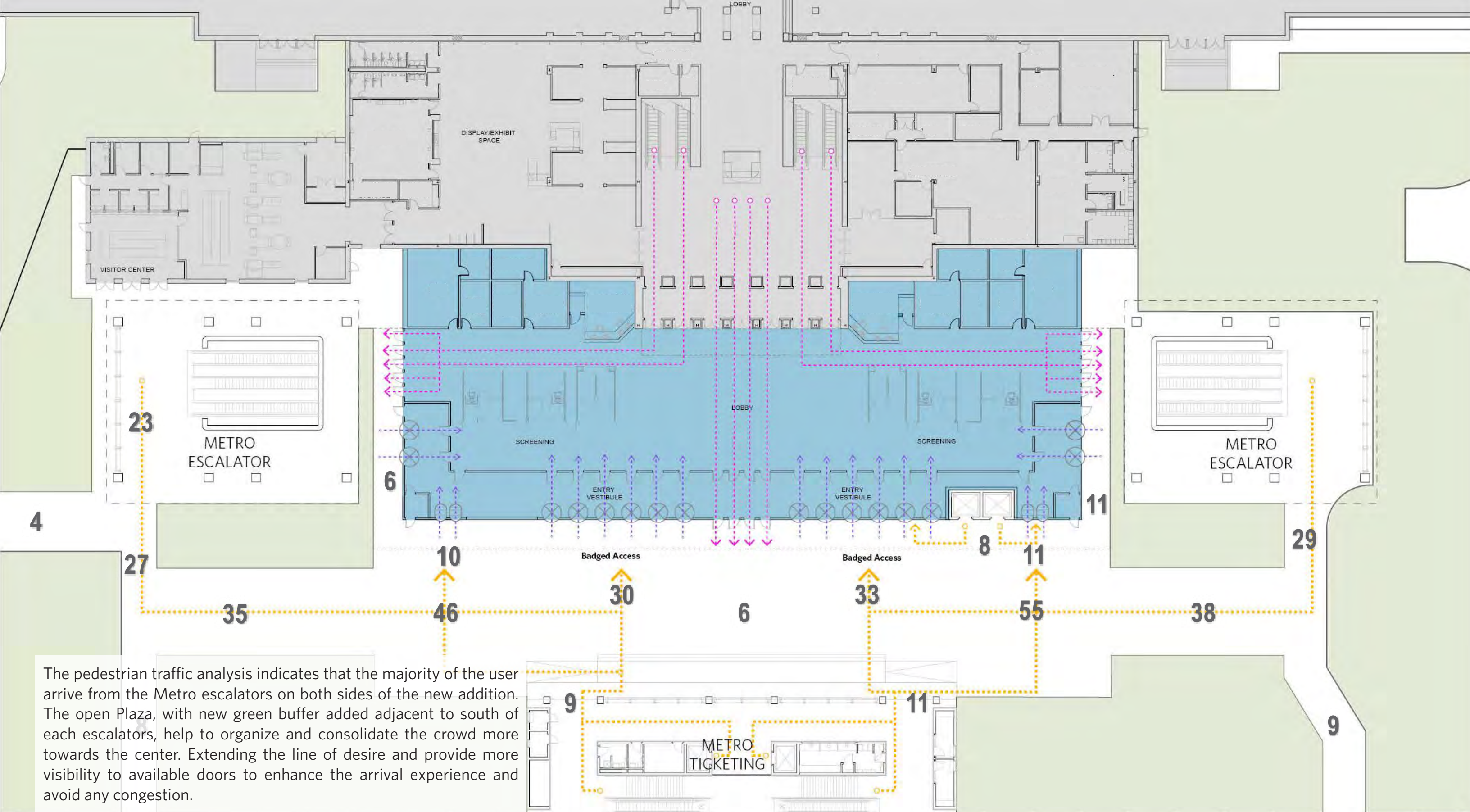
A single array of entrance turnstiles with direct access from the open plaza provide secured access to the facility. The open plaza provide an identifiable entrance gates and enhance the security protocol for the officers, visually and physically.

The existing elevators from Metro platform stay at the same location, however, the doors will be adjusted to open to Plaza due to security concerns. Exit-only doors on the sides and the center serve the egress path for emergency

PEDESTRIAN TRAFFIC FLOW

- EMERGENCY EGRESS
- PEDESTRIAN CIRCULATION
- BADGED ACCESS





The pedestrian traffic analysis indicates that the majority of the user arrive from the Metro escalators on both sides of the new addition. The open Plaza, with new green buffer added adjacent to south of each escalators, help to organize and consolidate the crowd more towards the center. Extending the line of desire and provide more visibility to available doors to enhance the arrival experience and avoid any congestion.

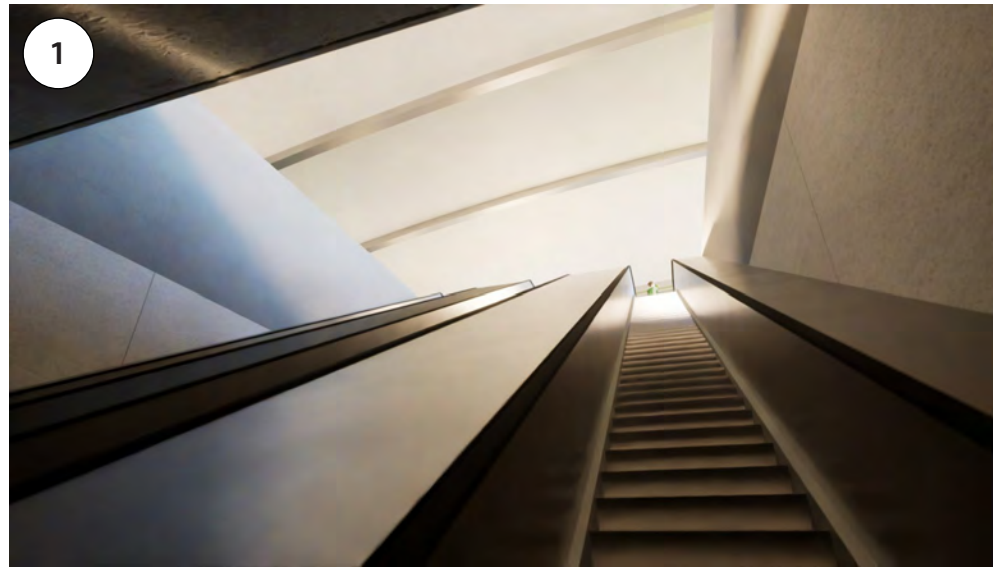
PEAK PEDESTRIAN FLOW | NUMBER OF PEOPLE PER MINUTE

- EMERGENCY EGRESS
- PEDESTRIAN CIRCULATION
- BADGED ACCESS

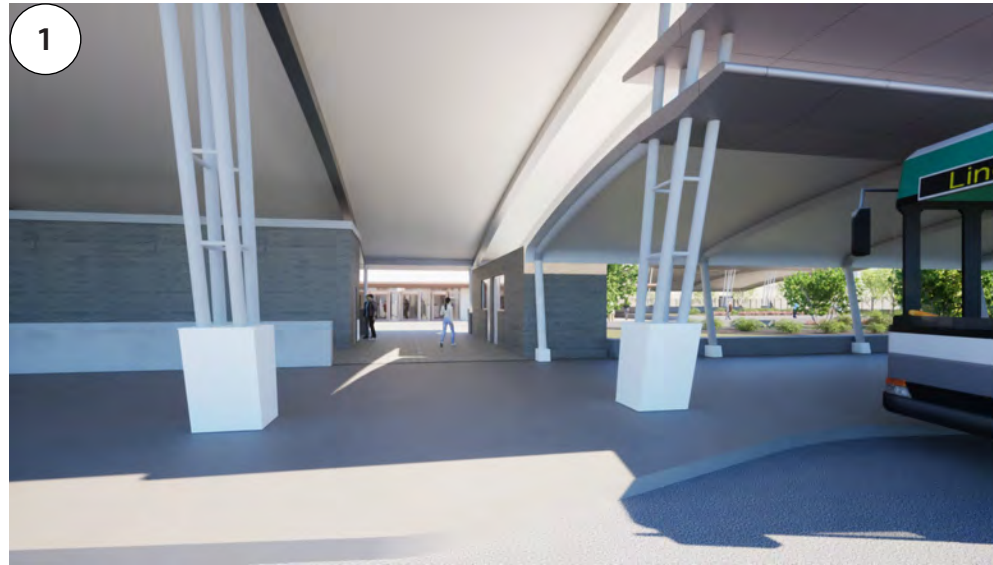
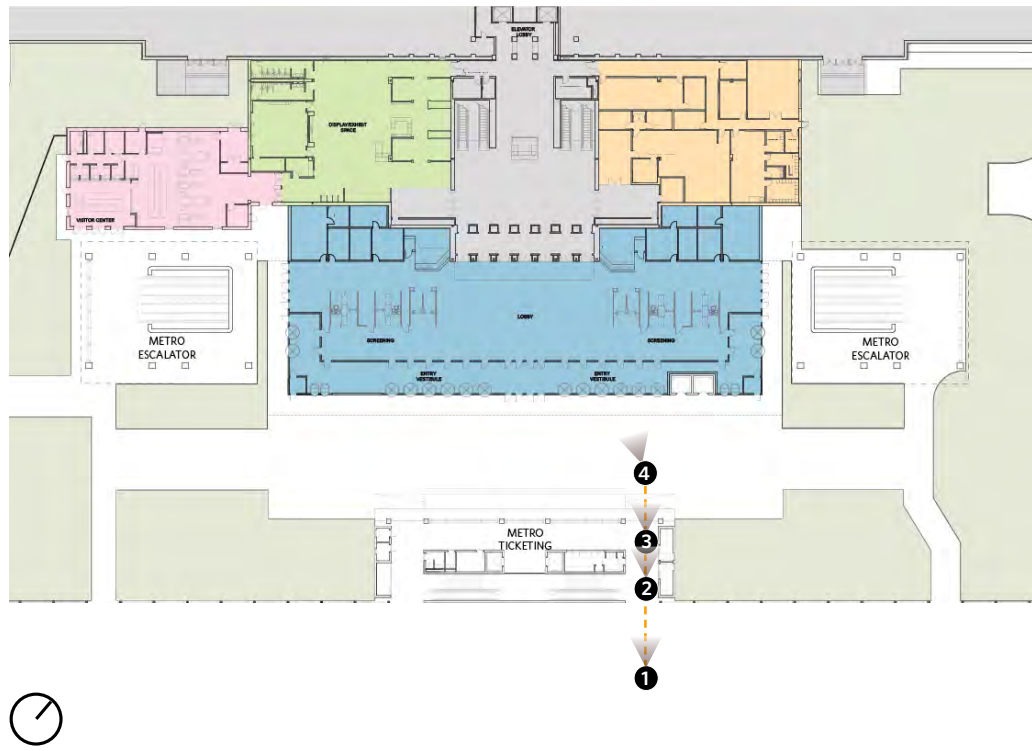




Sequential Perspective



PATH FROM METRO STATION



PATH FROM BUS STATION



PATH FROM DROP OFF



DESIGN OPTIONS

Starved/Stripped Classical style

- Monumental
- Limited or no ornamentation
- Traditional classical elements
- Distinctly functional & modern

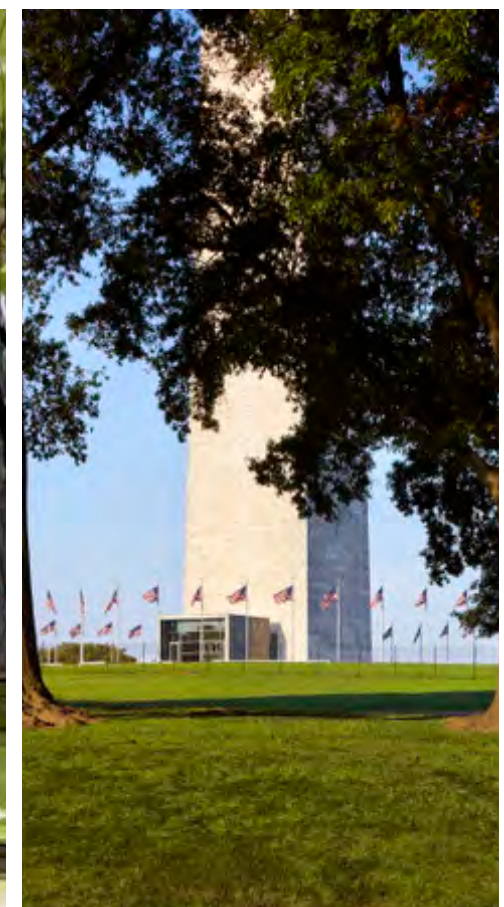
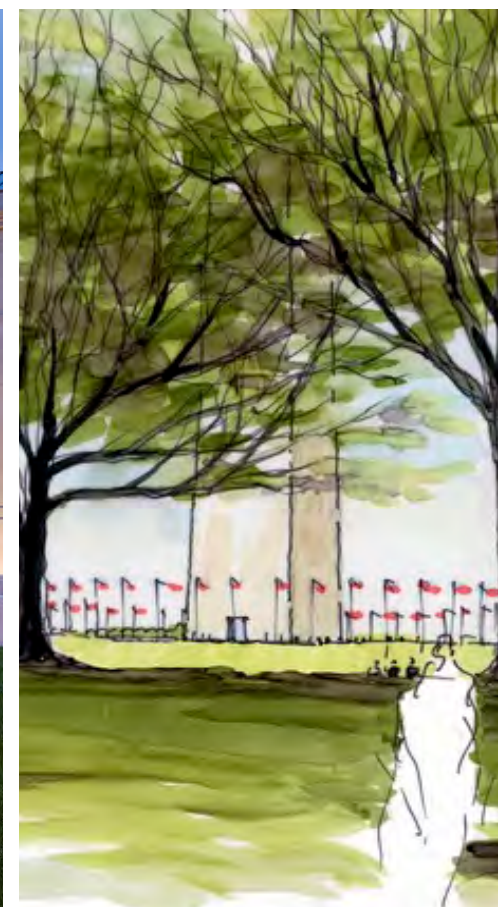
Typical of government buildings in the 1930s and 1940s- established a federal presence outside of D.C.



- Primacy of the Pentagon Building
- Compliance with historic standards
- Consistency and Harmony
- Subdued and Dignified aesthetic
- Simple lines and massing
- Appropriate detailing
- Restrained Palette
- Hierarchy of construction
- Durability and longevity
- Sustainability

- *The WHS Pentagon Exterior Standards Manual*
- *The Secretary of the Interior's Standards for Rehabilitation*



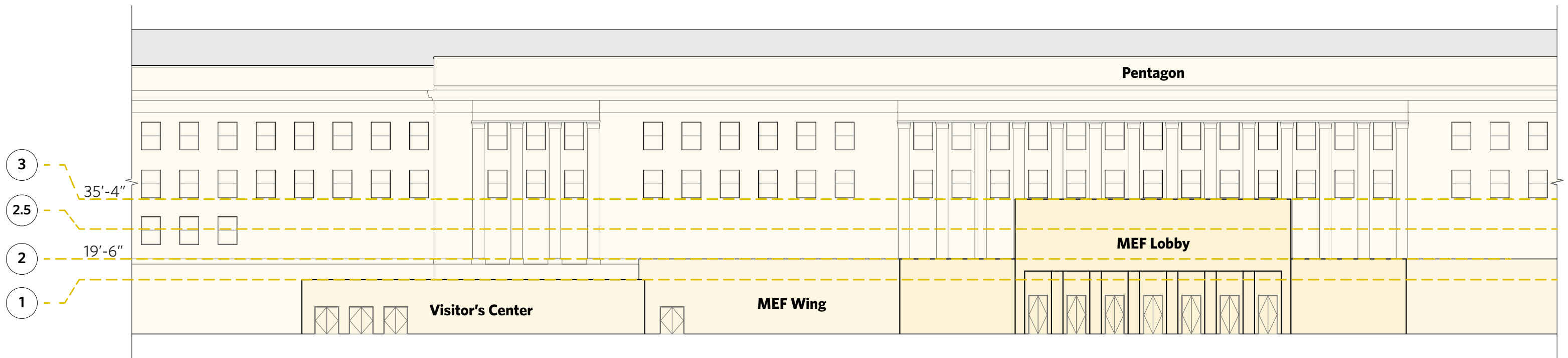


PRECEDENTS



- Similar horizontal architectural elements on the Pentagon main building
- Other entrances and their historical references

ENTRANCES | HORIZONTAL ELEMENTS



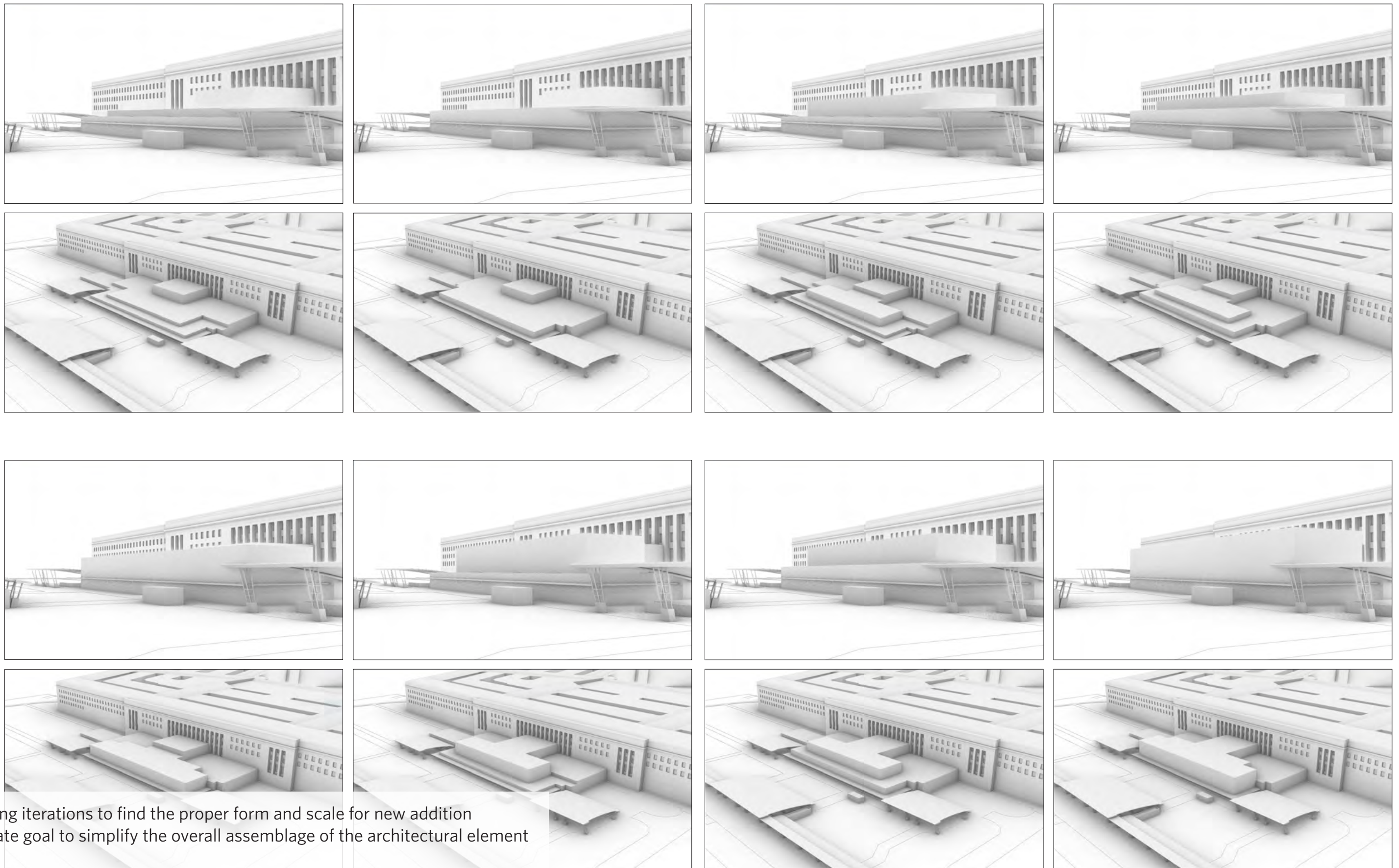
- The datum lines of Pentagon building , Existing MEF and Visitor`s Center
- Aligning the new addition massing height to create consistency and a simpler form

MASSING | DATUM LINES



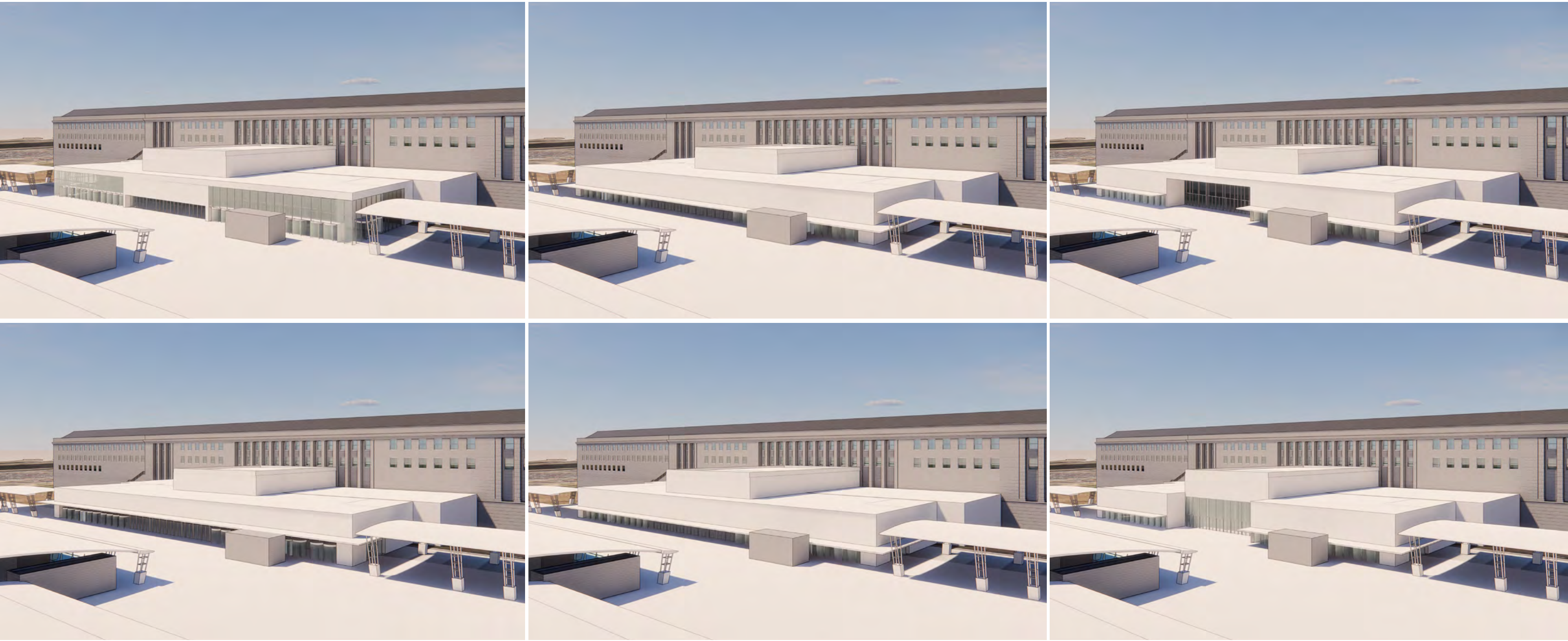
The Beacon of Safety and Hope...

DESIGN STORY



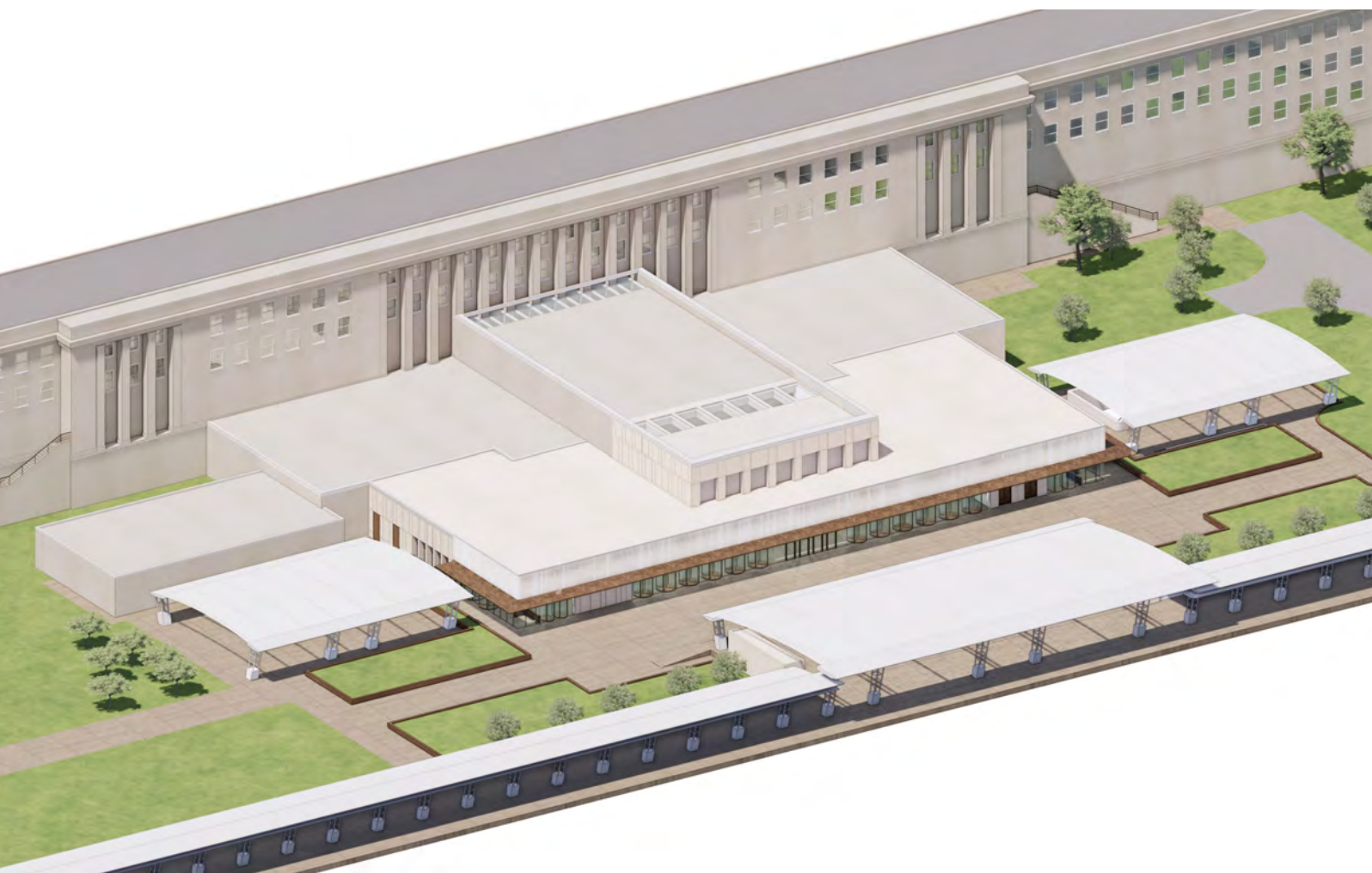
- Massing iterations to find the proper form and scale for new addition
- Ultimate goal to simplify the overall assemblage of the architectural element

MASSING STUDY



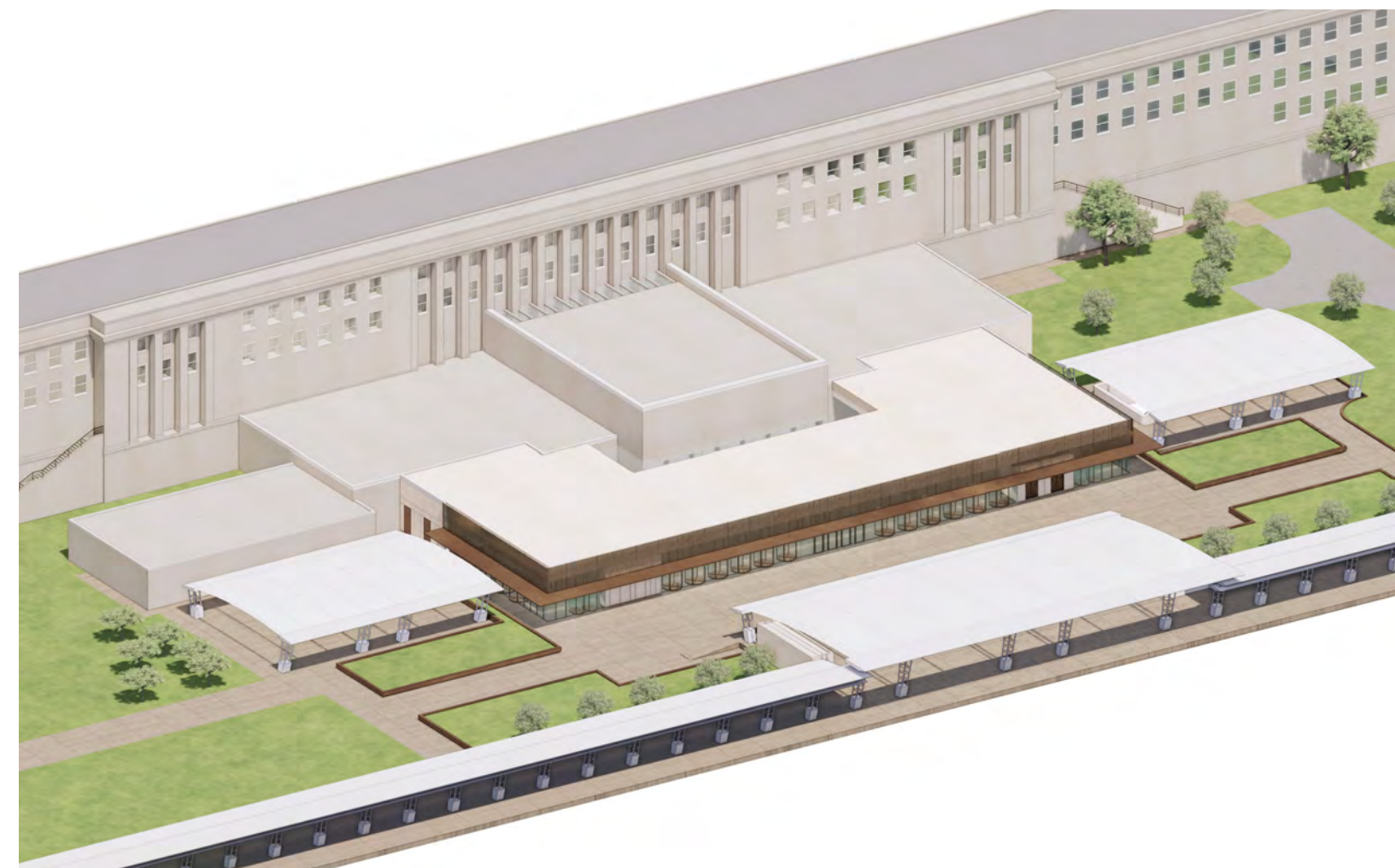
- Studying the relationship between the plaza and new massing
- Overall impression as the Public threshold to the Pentagon

MASSING STUDY



OPTION 1

- Extended top volume of MEF further for more presence
- Extended solid wall connection to MEF
- Skylights in double height area
- Iconic floating Channel glass element
- Maximizing Natural light access



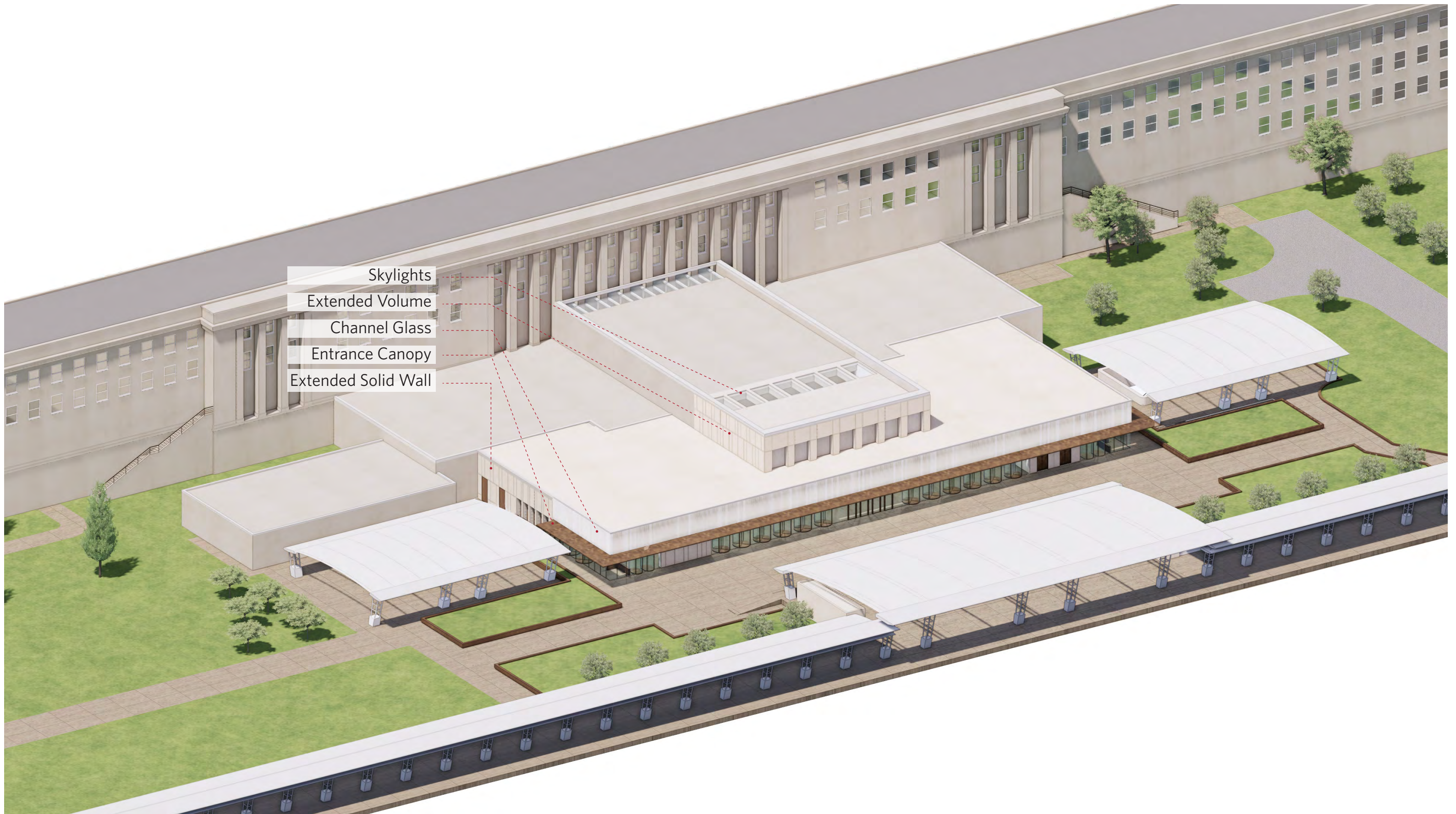
OPTION 2

- Aligning the height to lower wing of MEF
- Minimized solid wall connection to MEF
- Skylights around existing MEF
- Iconic floating mesh screen wall element
- Maximizing Natural light access

DESIGN OPTIONS

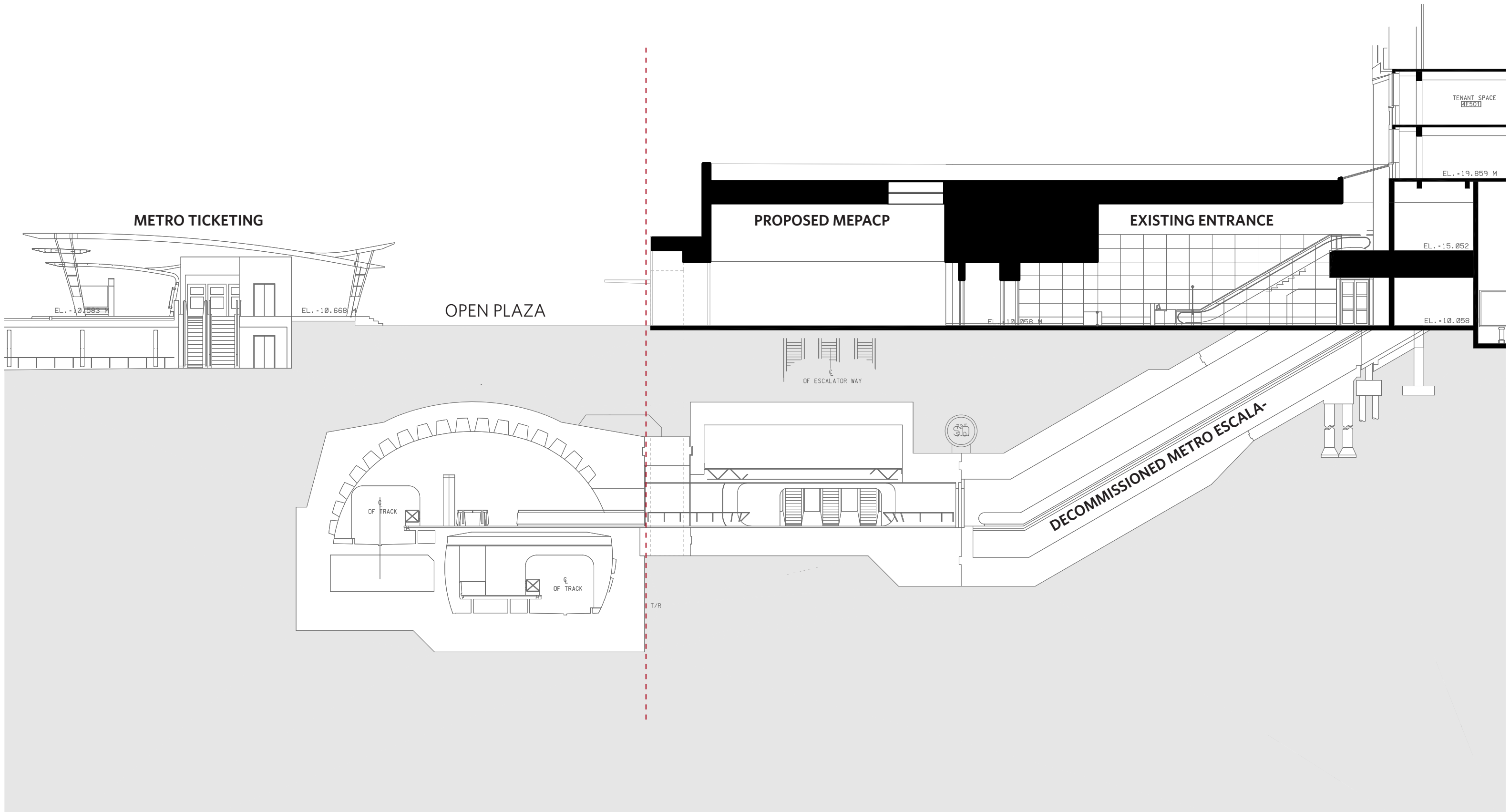


Option 1



- Skylights
- Extended Volume
- Channel Glass
- Entrance Canopy
- Extended Solid Wall

OPTION 1



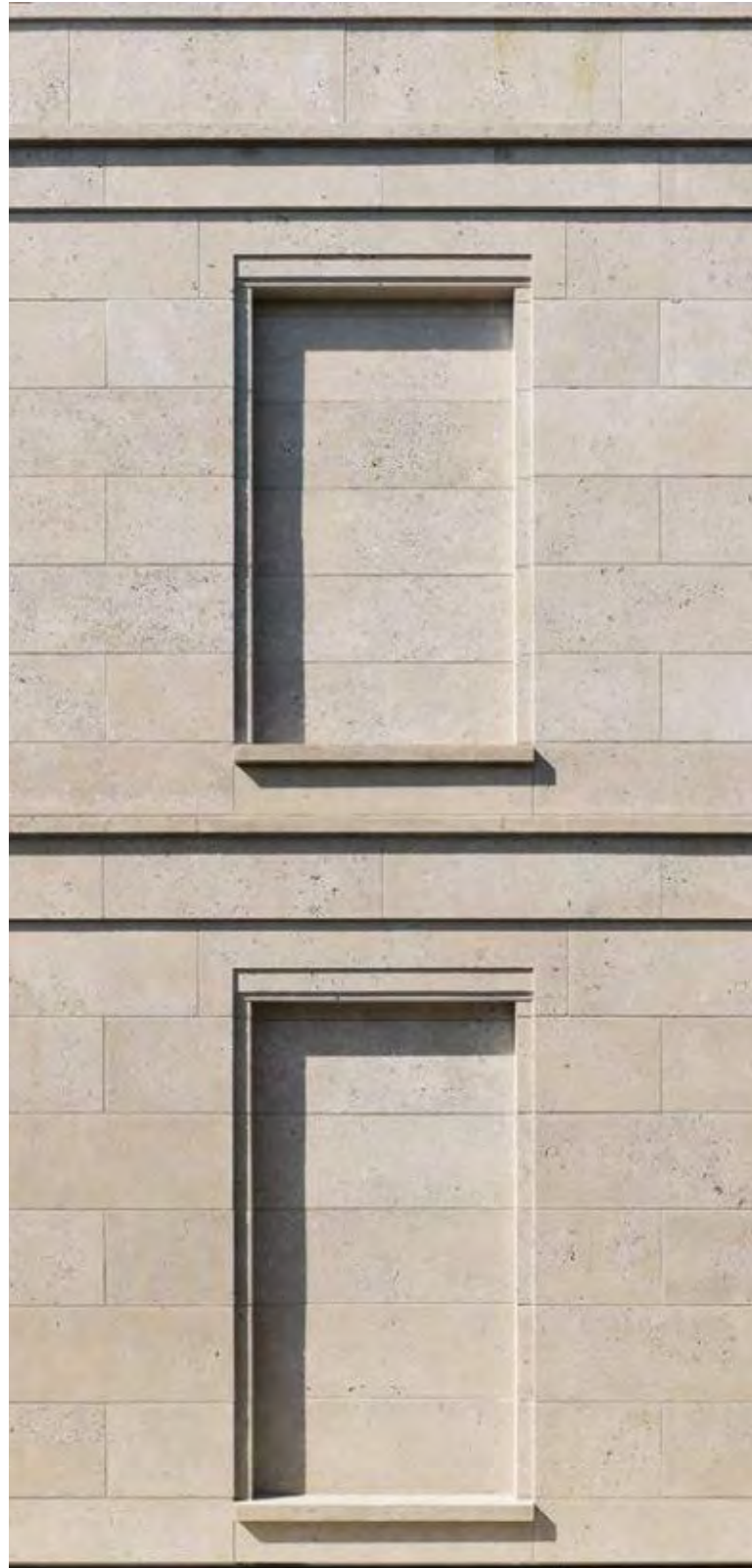
SECTION A | PROPOSED

1/20" = 1'

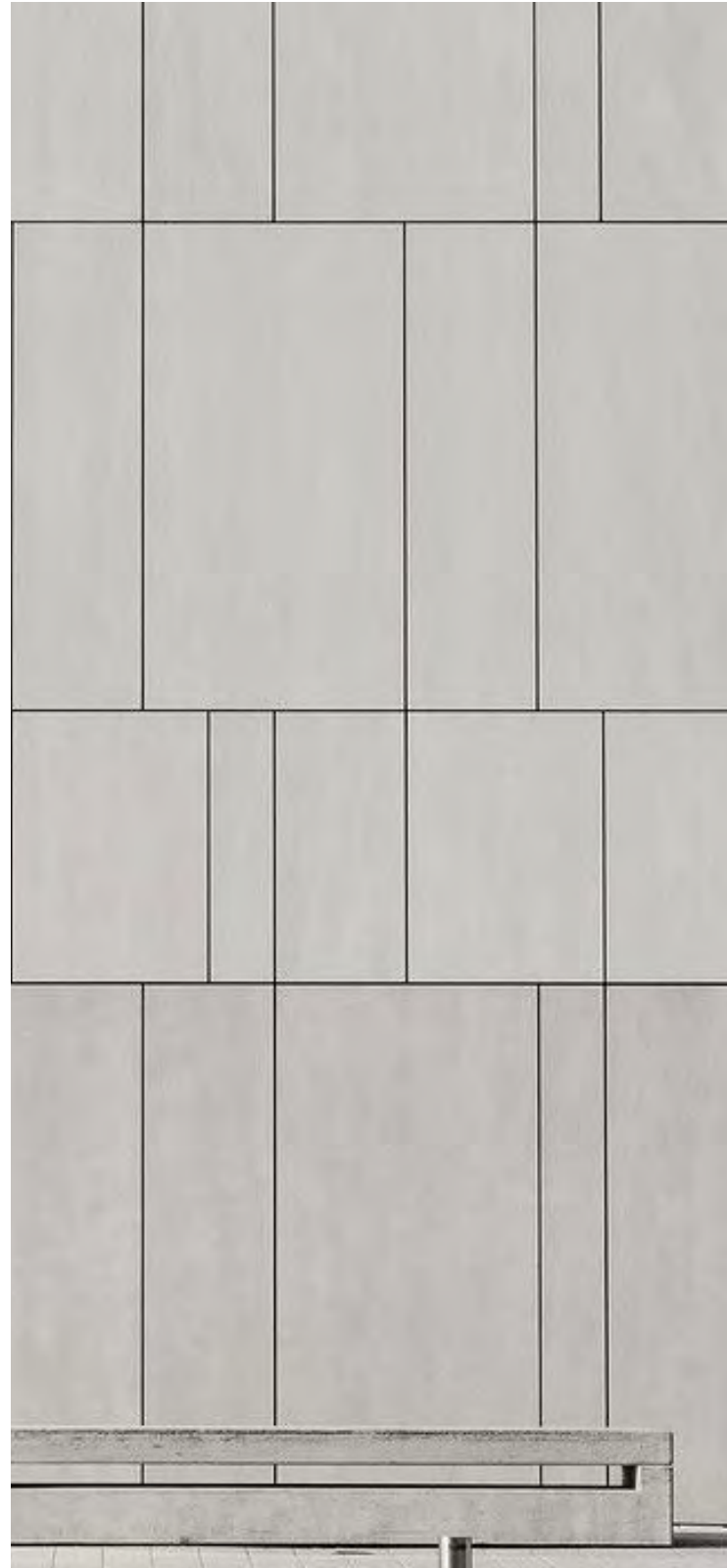




PRECEDENT STUDY



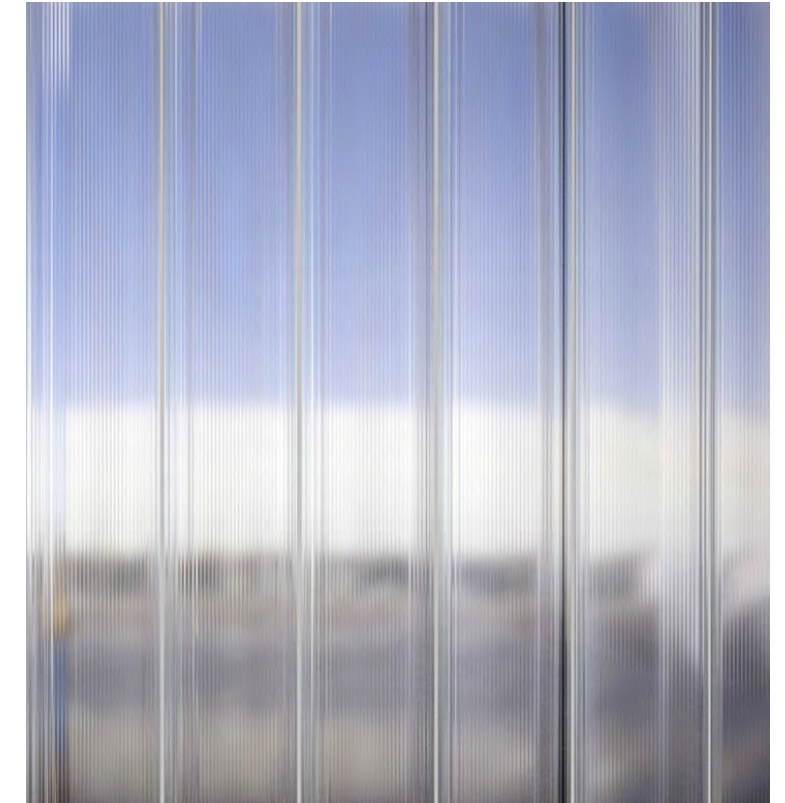
LIME STONE



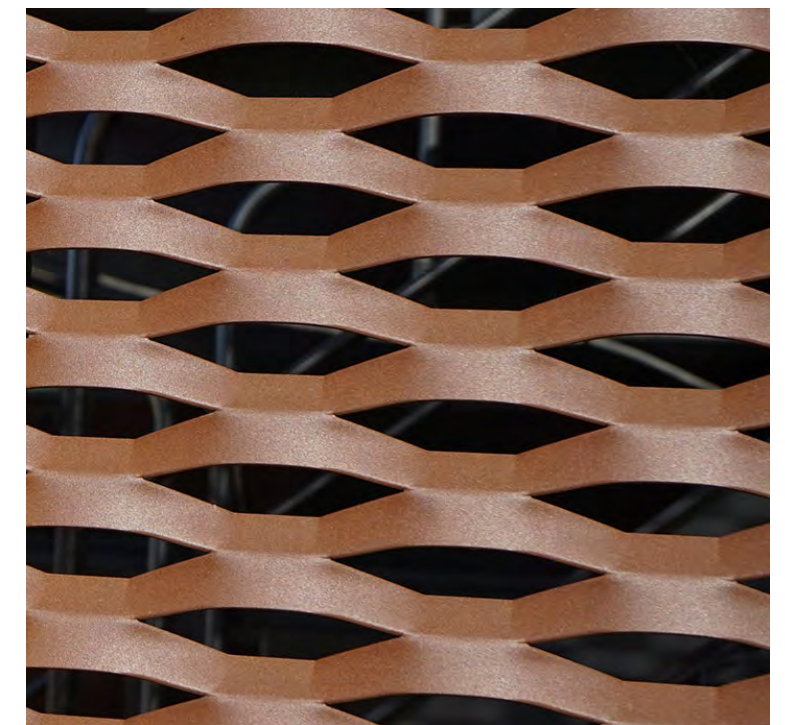
ENGINEERED STONE | PORCELAIN
TILE



METAL PANEL | FRITTED GLASS



CHANNEL GLASS



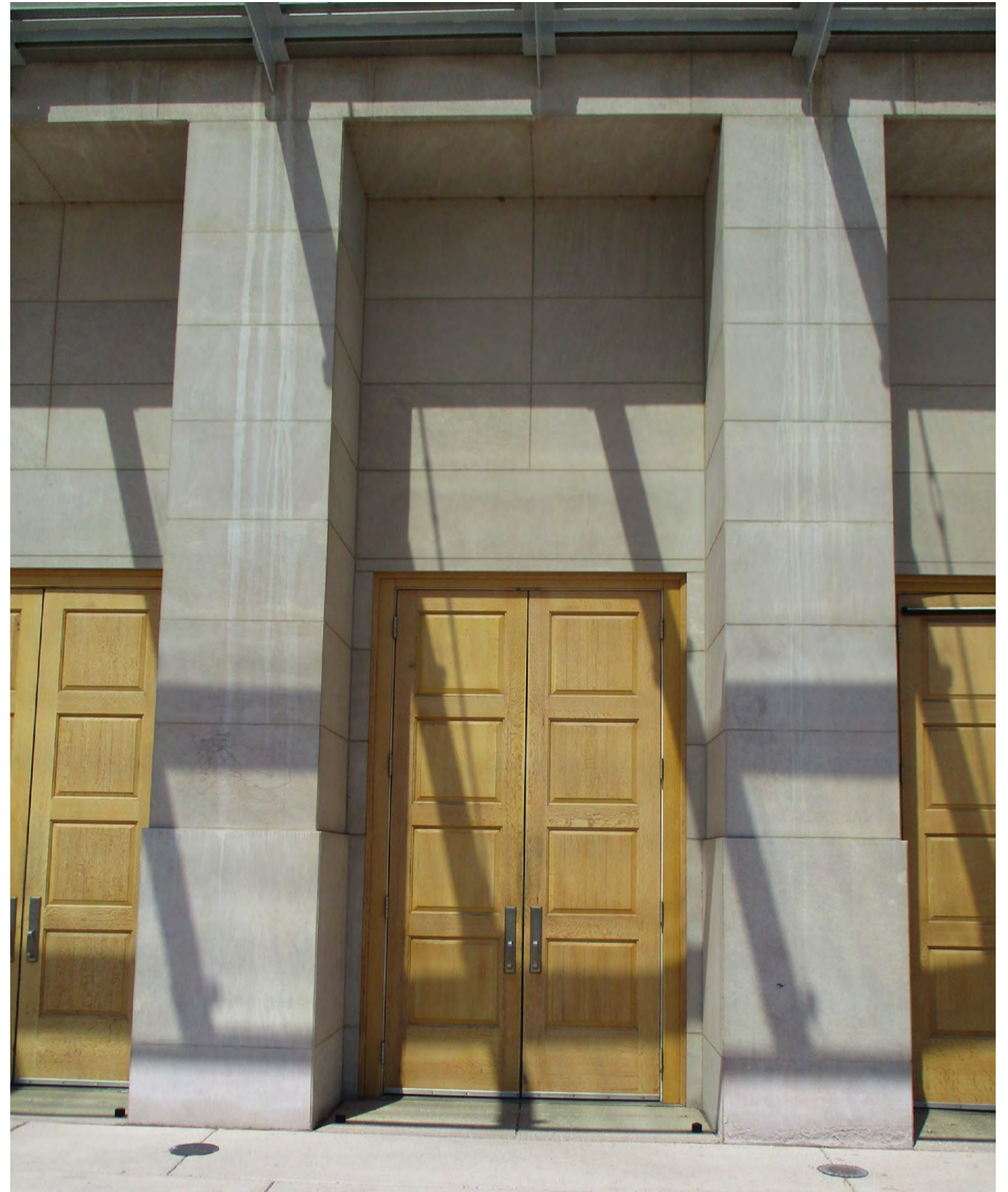
METAL MESH

MATERIALITY

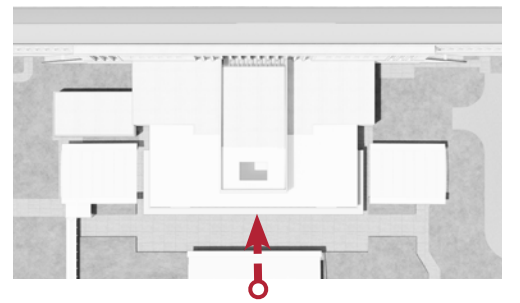
Material Study based on the historical context and modern nature of the new addition



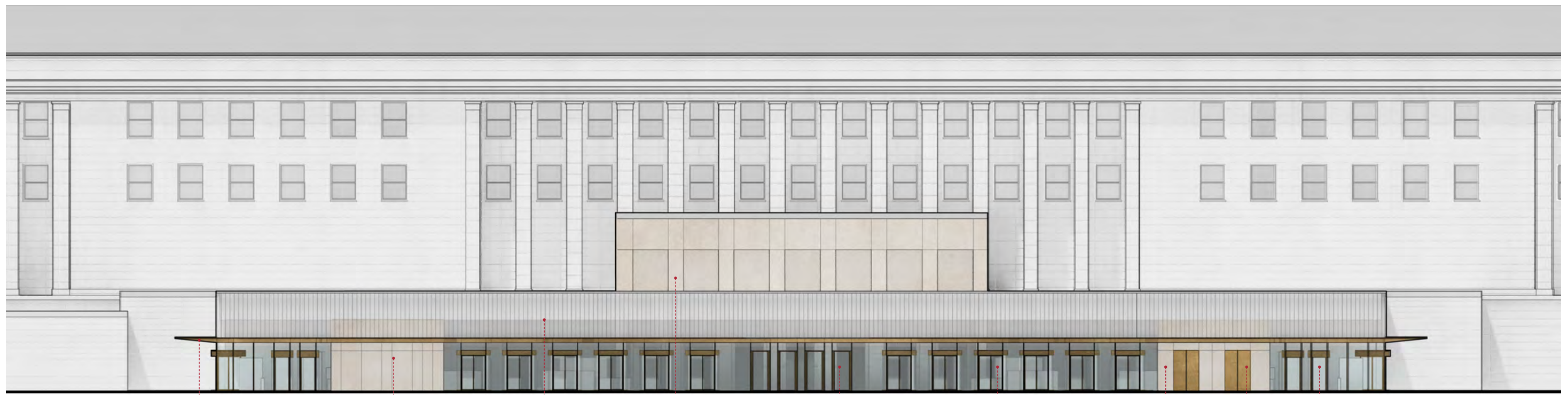
MATERIALITY | EXISTING



Concerns regarding the durability and maintainability of existing limestone

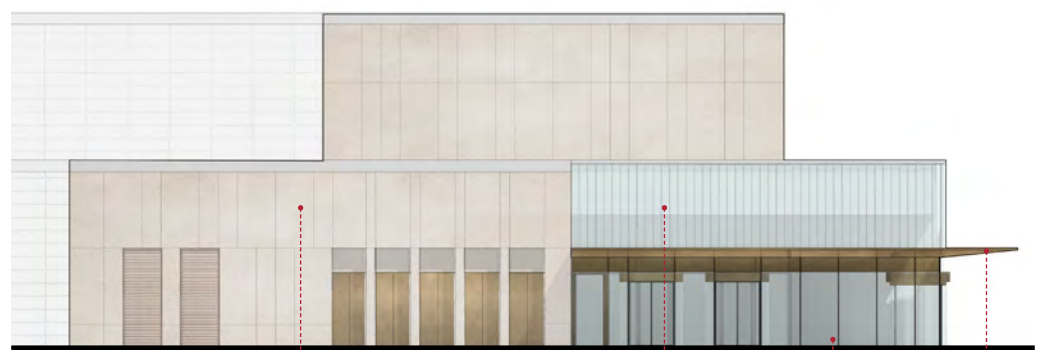


VIEW | OPTION 1



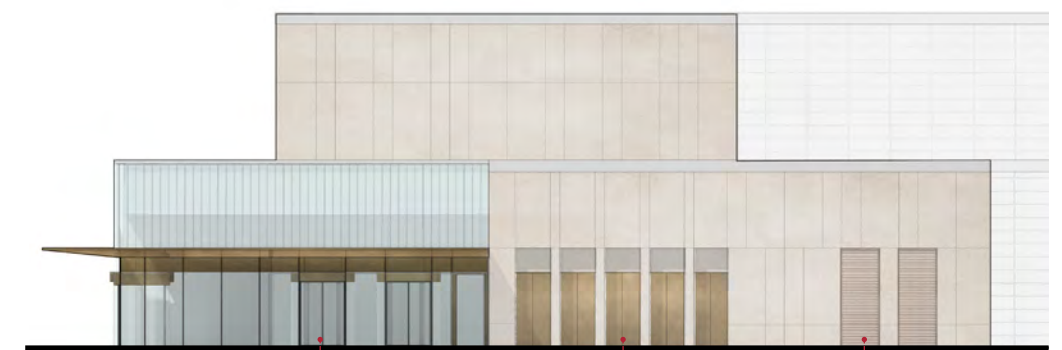
South Elevation
1/20" = 1'

- Metal Canopy
- Solid Panel
- Channel Glass
- Solid Panels
- Glass Egress Doors
- Glass Turnstiles
- Solid Panel
- Elevator Door
- ADA Glass Turnstiles



West Elevation
1/20" = 1'

- Solid Panel
- Channel Glass
- Vision Glass
- Metal Canopy

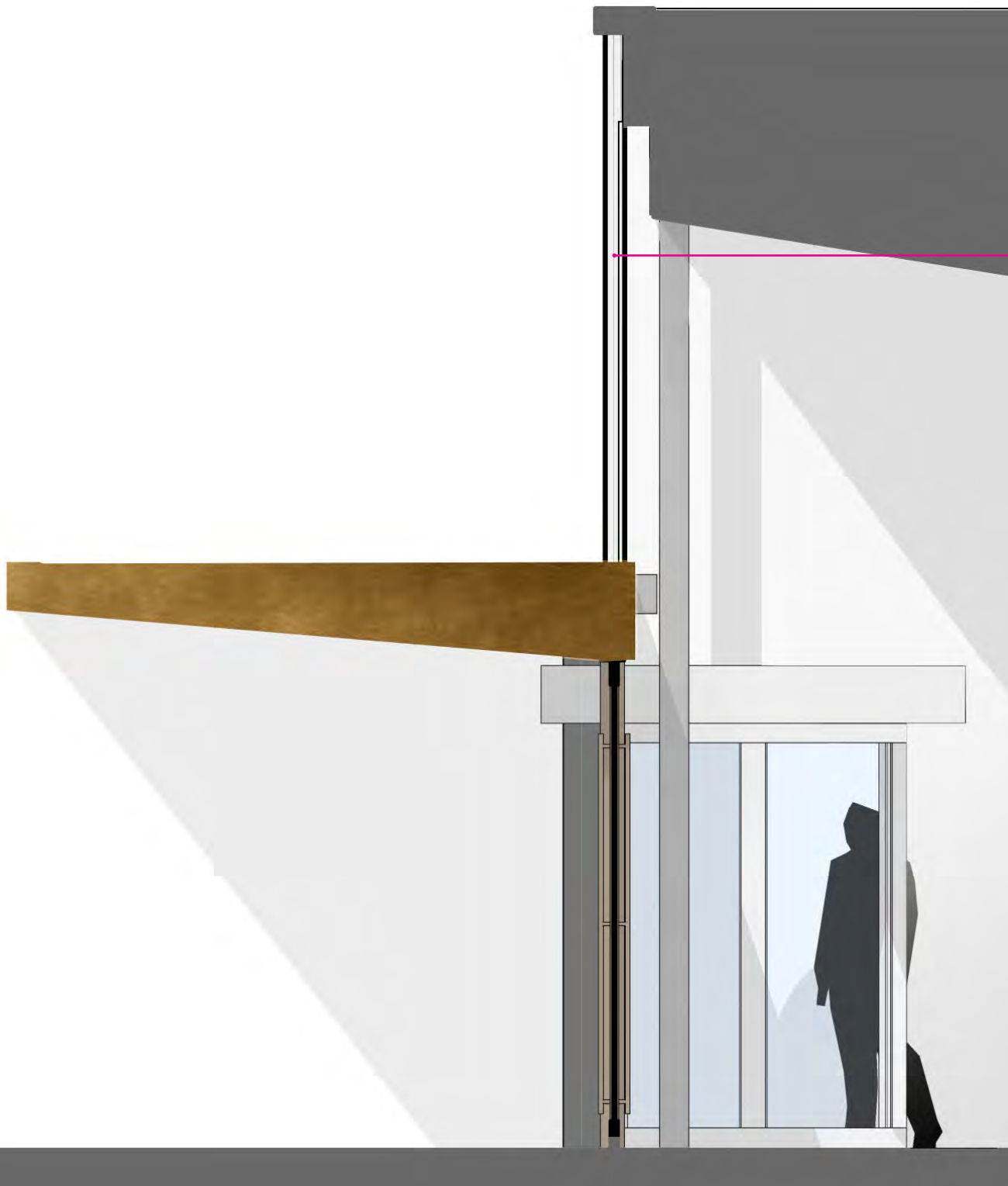


East Elevation
1/20" = 1'

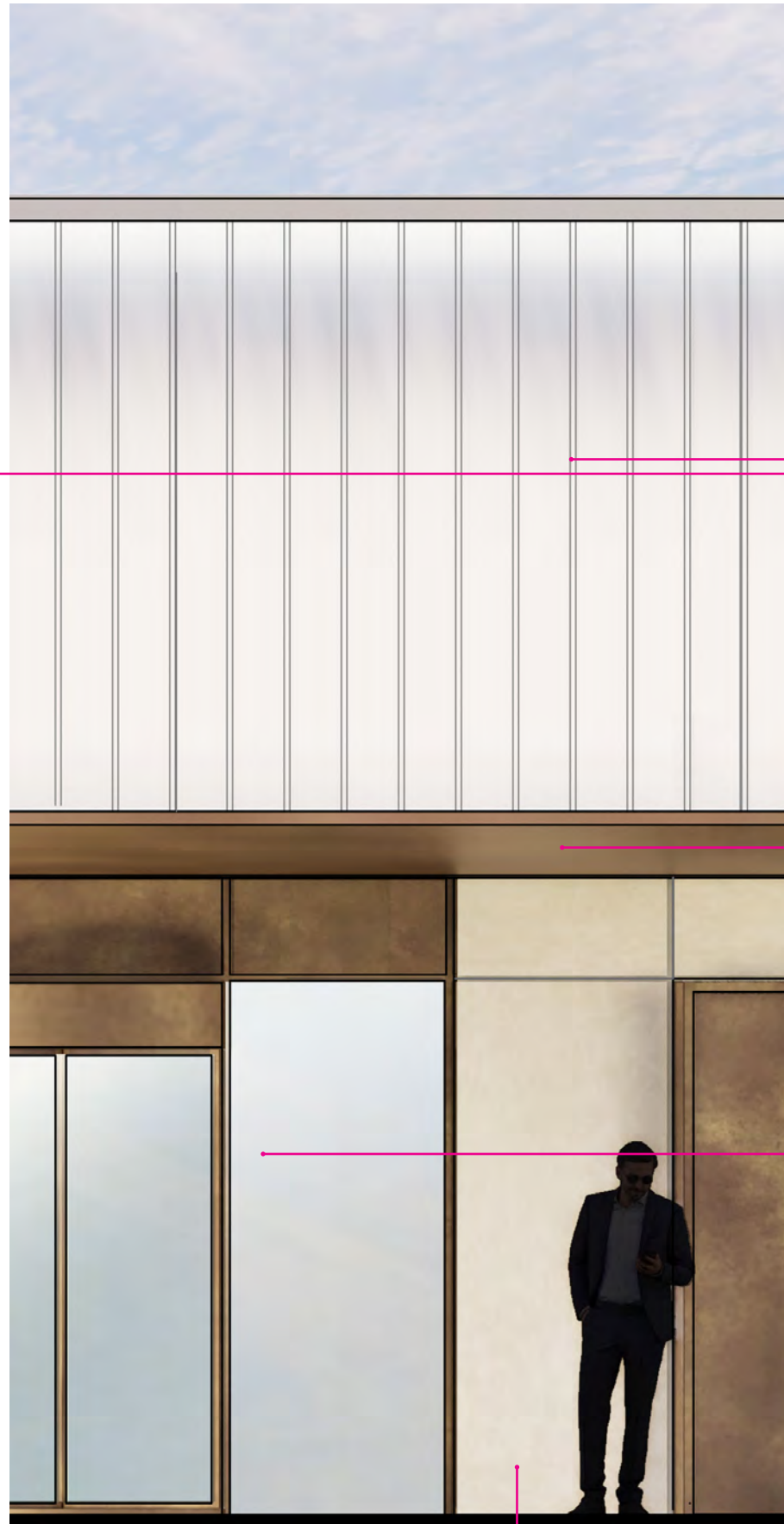
- Glass Turnstiles
- Solid Egress Doors
- Mechanical Louvers

- Emphasize on symmetry, simplicity and elegance
- The harmony between the historical context and the modern addition

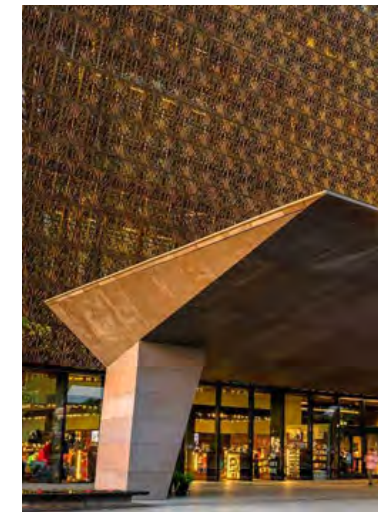
ELEVATIONS | OPTION 1



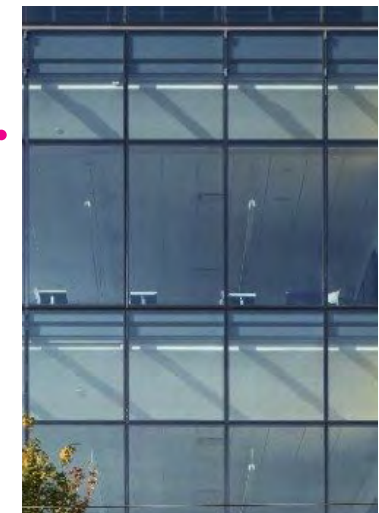
SECTION ELEVATION | VESTIBULE | OPTION 1



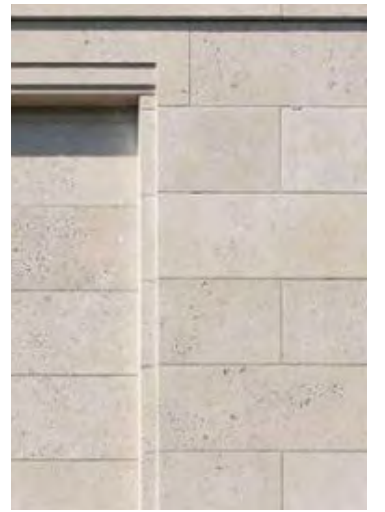
Channel Glass



Bronze Metal



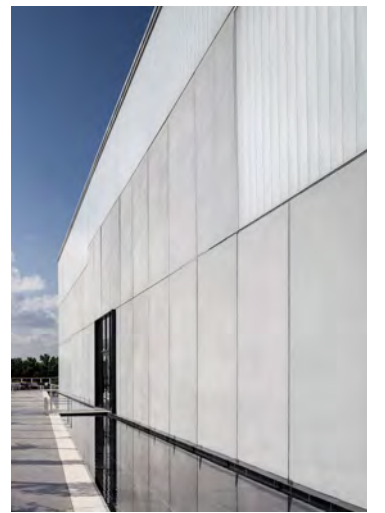
Vision Glass



Limestone



Porcelain Tile



Fiber Cement



VIEW | OPTION 1



VIEW | OPTION 1

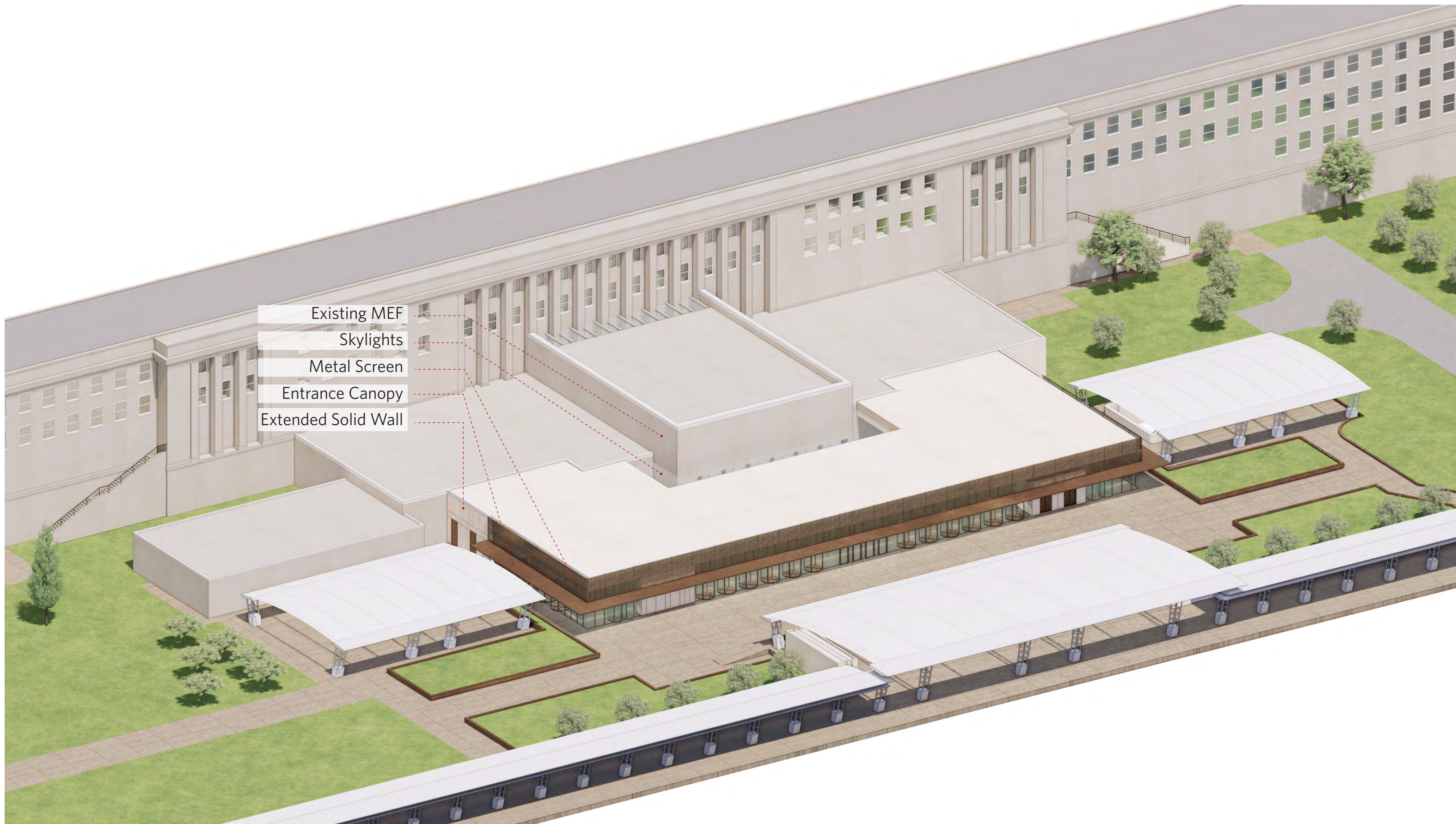


INTERIOR VIEW | OPTION 1

The wooden doors are part of another renovation project. The doors stay in controlled hold-on position during the operation time.

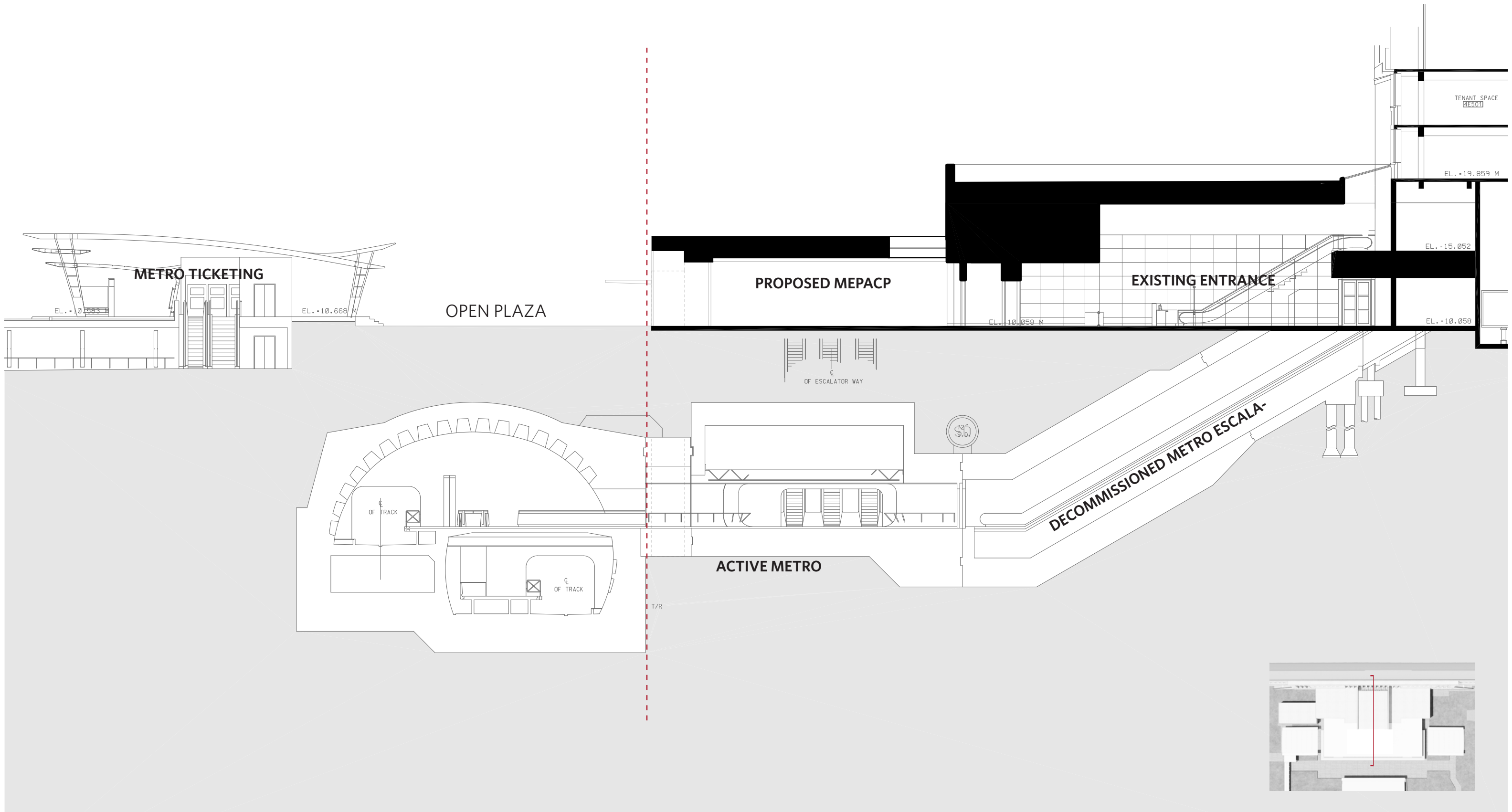


Option 2

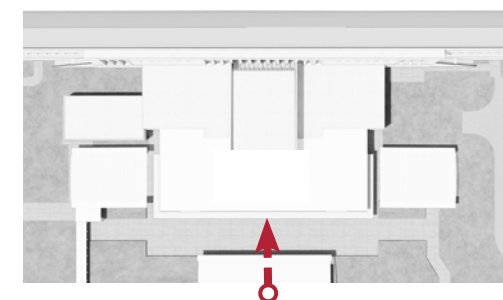
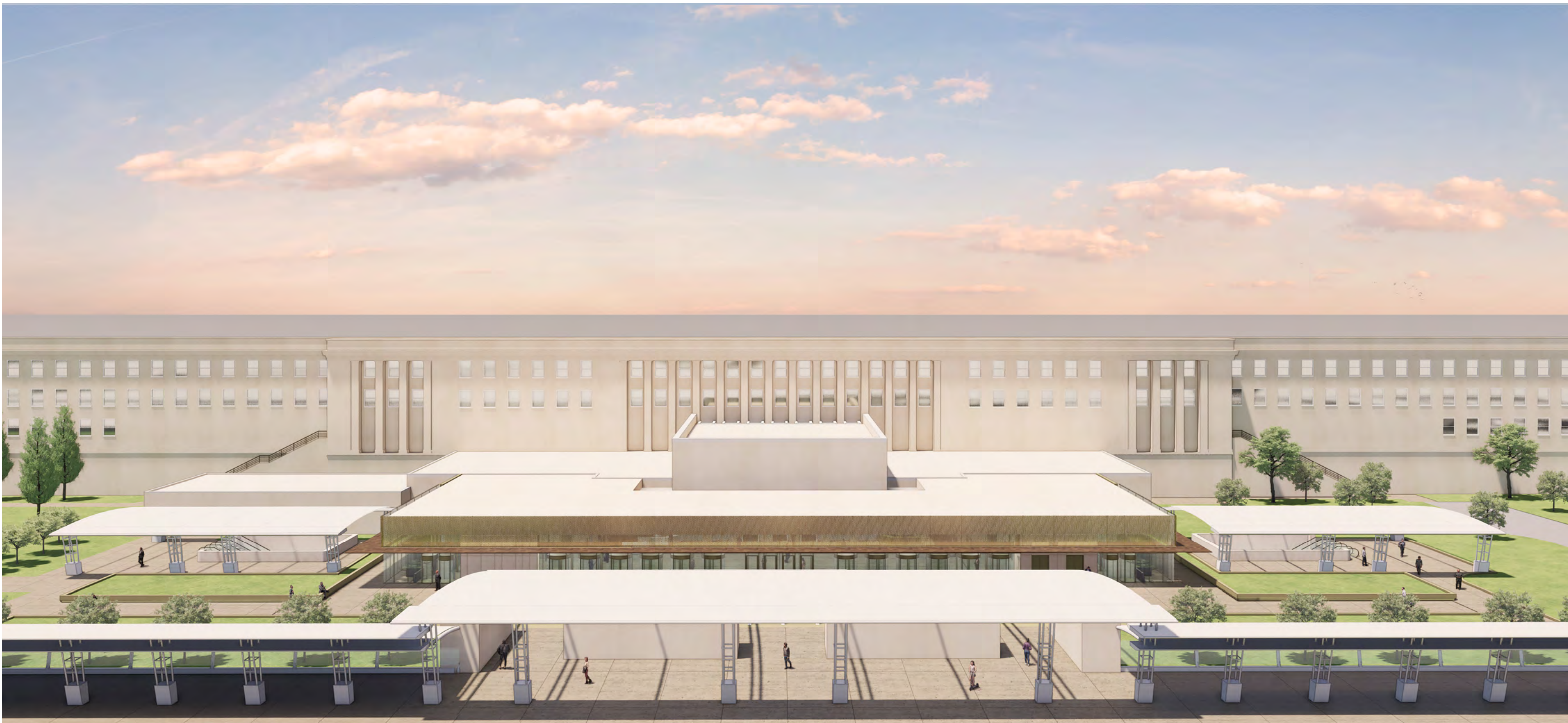


- Existing MEF
- Skylights
- Metal Screen
- Entrance Canopy
- Extended Solid Wall

OPTION 2



SECTION B | OPTION 2

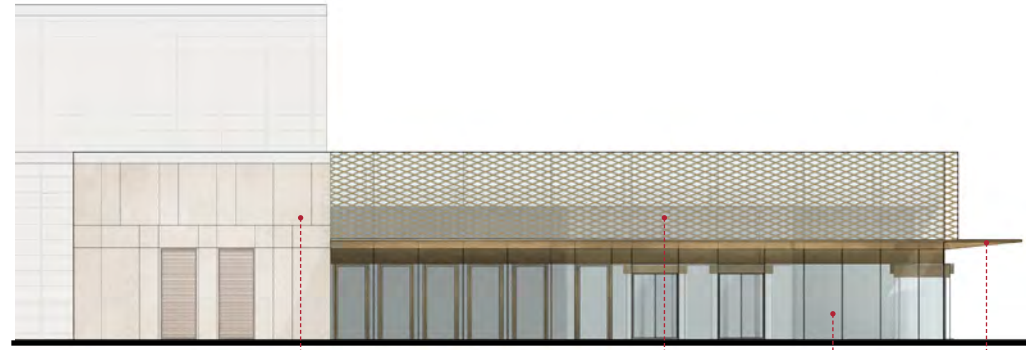


VIEW | OPTION 2



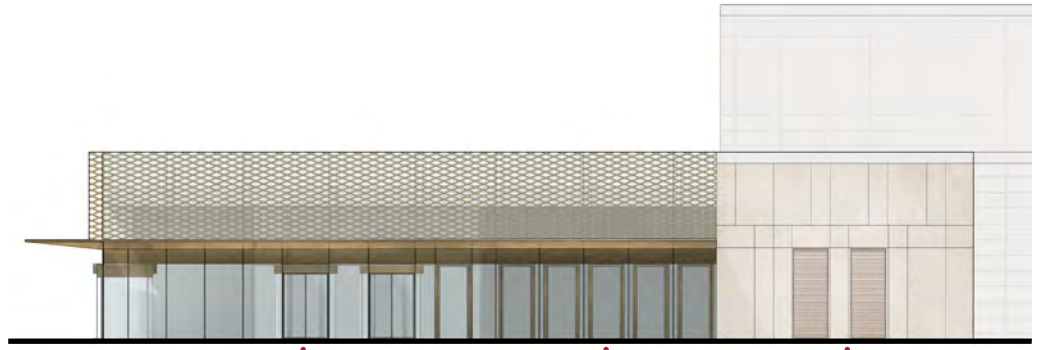
South Elevation
1/20" = 1'

- Metal Canopy
- Solid Panel
- Metal Screen
- Glass Egress Doors
- Glass Turnstiles
- Solid Panel
- Elevator Door
- ADA Glass Turnstiles



West Elevation
1/20" = 1'

- Solid Panel
- Metal Screen
- Vision Glass
- Metal Canopy

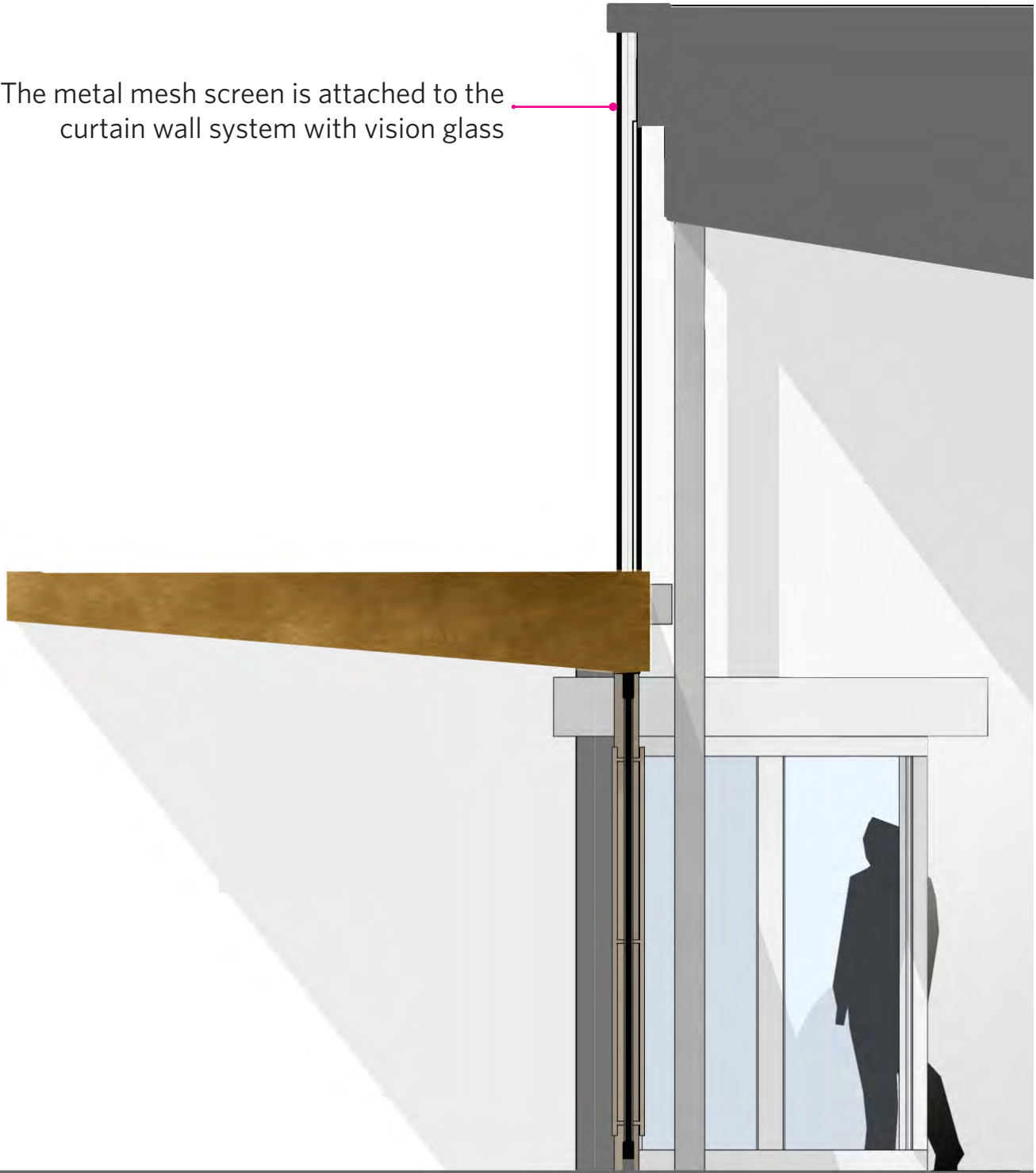


East Elevation
1/20" = 1'

- Glass Turnstiles
- Glass Egress Doors
- Mechanical Louvers

ELEVATIONS | OPTION 2

The metal mesh screen is attached to the curtain wall system with vision glass



SECTION ELEVATION | VESTIBULE | OPTION 2



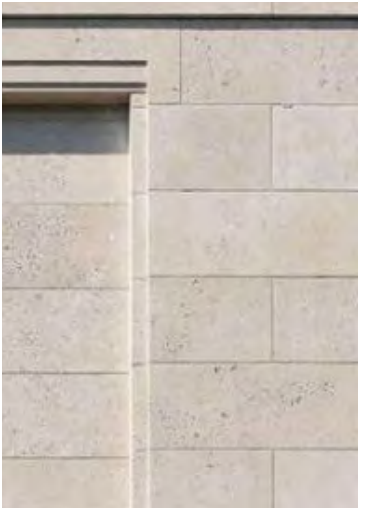
Mesh Screen



Bronze Metal



Vision Glass



Limestone



Porcelain Tile



Fiber Cement



VIEW | OPTION 2



VIEW | OPTION 2

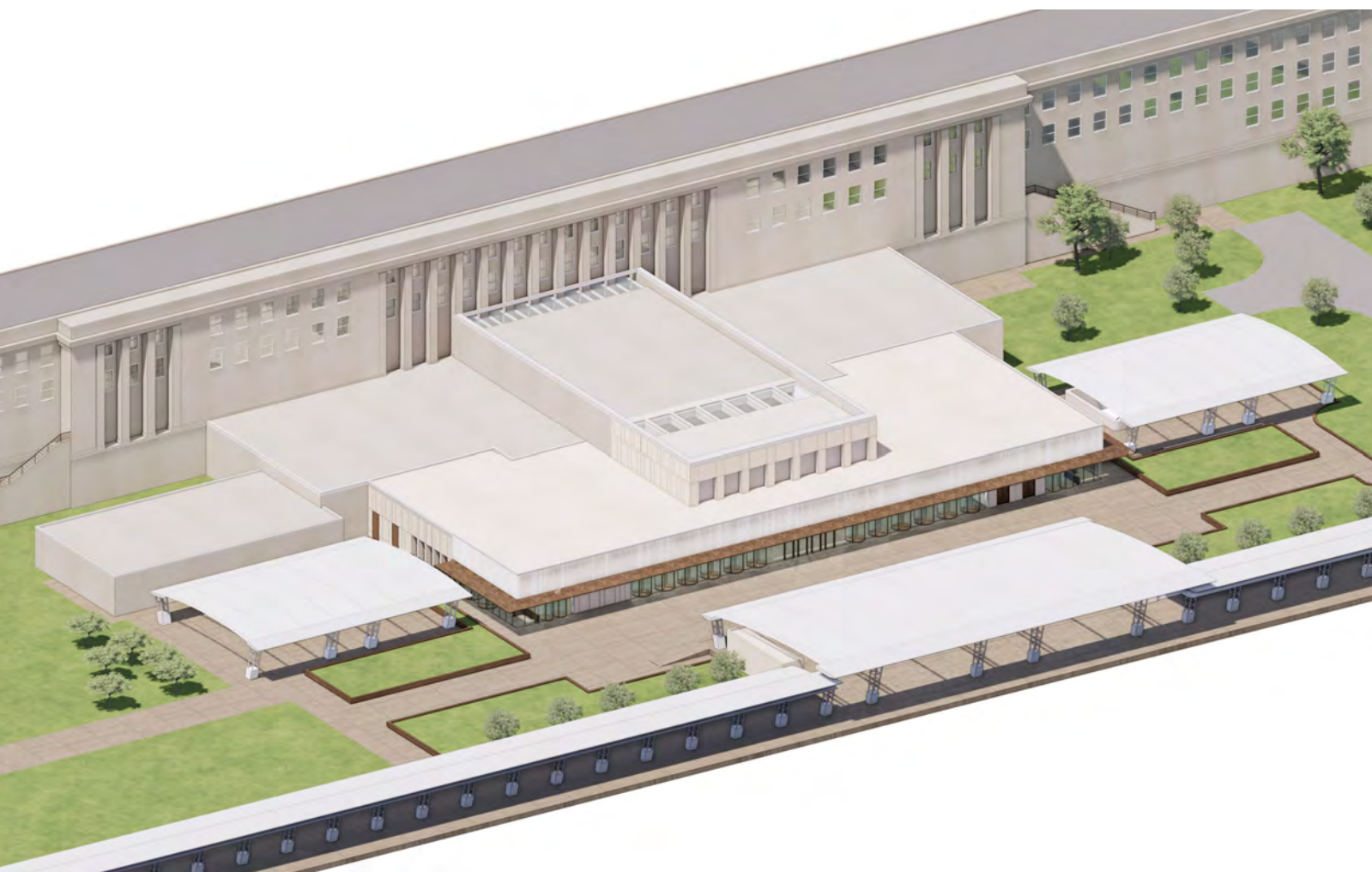


INTERIOR VIEW | OPTION 2

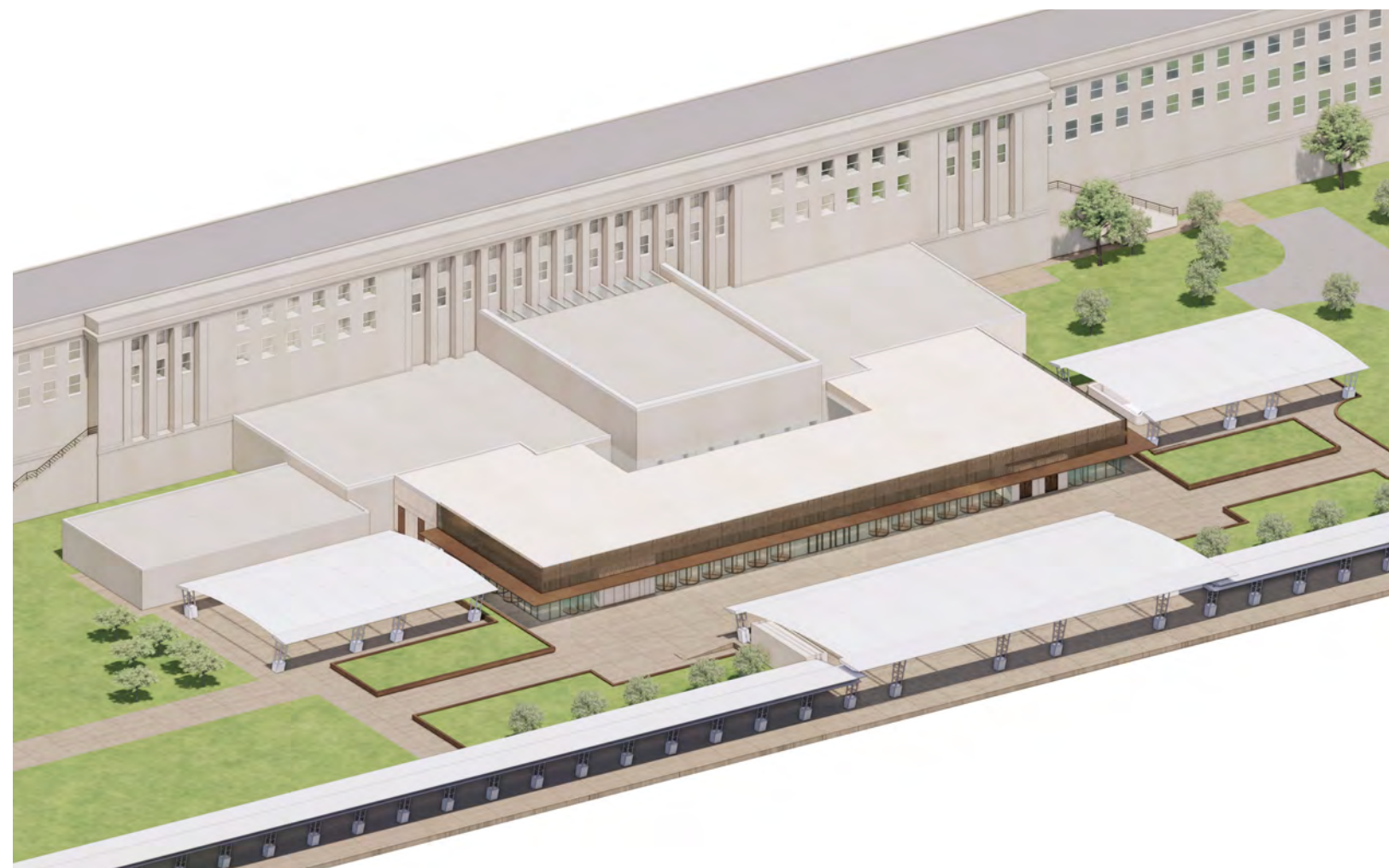
The wooden doors are part of another renovation project. The doors stay in controlled hold-on position during the operation time.



Comparison



OPTION 1



OPTION 2

DESIGN OPTIONS

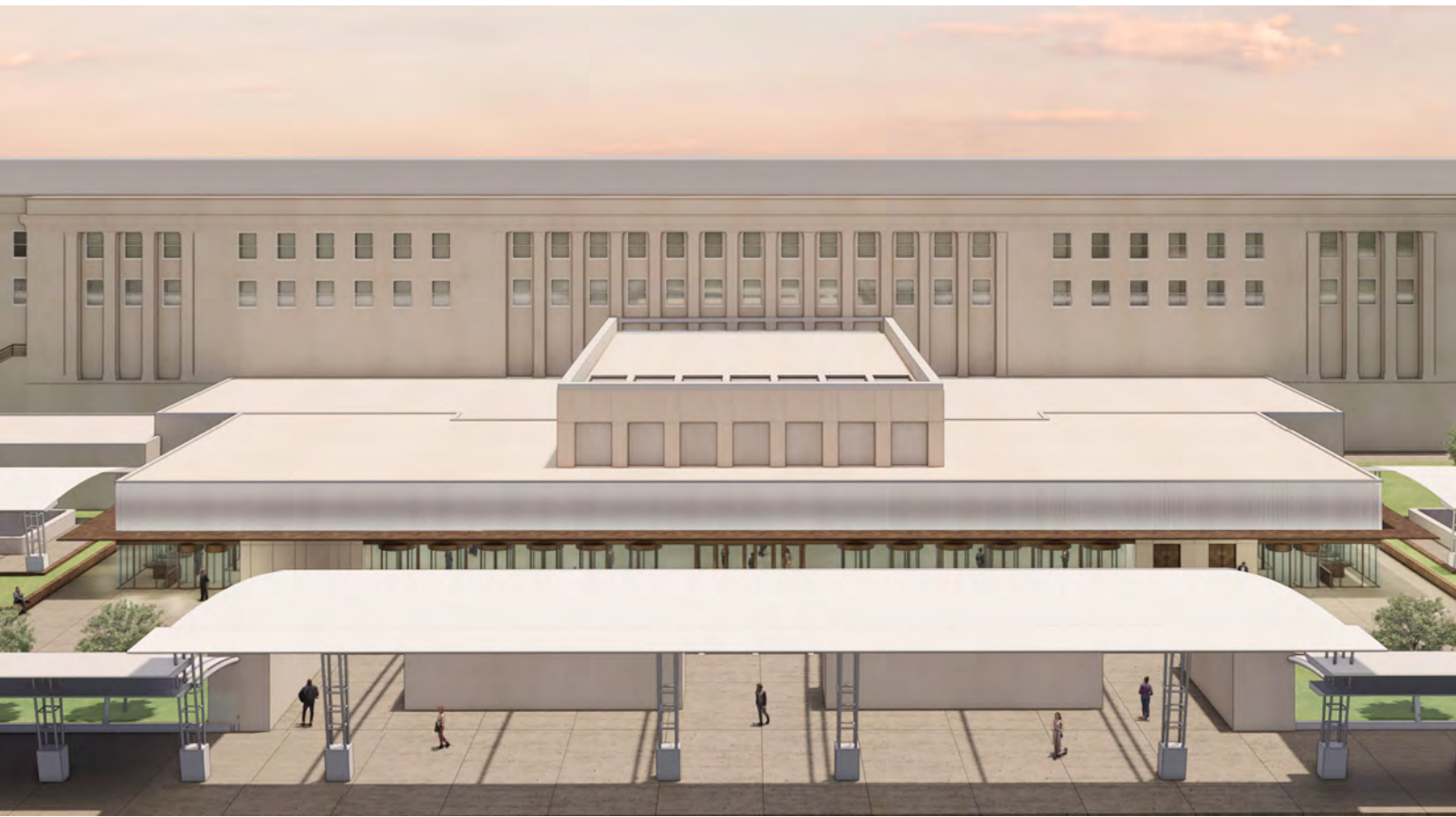


OPTION 1

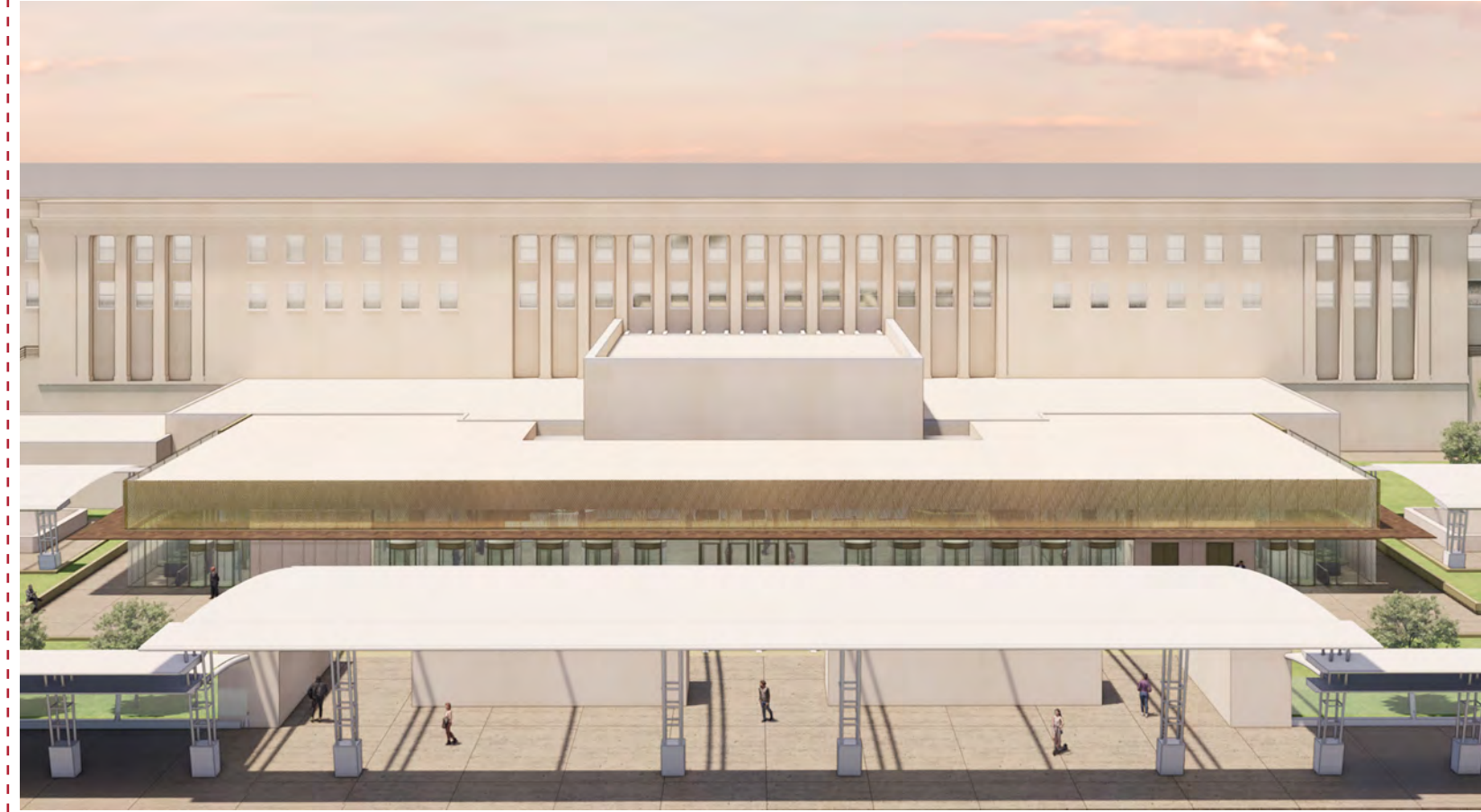


OPTION 2

DESIGN OPTIONS



OPTION 1



OPTION 2

DESIGN OPTIONS

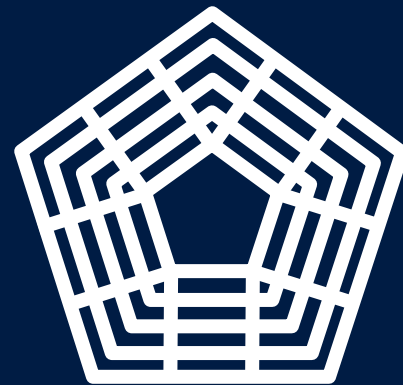


OPTION 1



OPTION 2

DESIGN OPTIONS



Washington Headquarters Services Pentagon Reservation

**METRO ENTRANCE PEDESTRIAN ACCESS CONTROL POINT
(MEPACP)**

February 15th, 2024