

# John Goncalves

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## EDUCATION

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**New Jersey Institute of Technology**

*Architecture / B.Arch*

**Union County College**

*Associates of Science*

**Newark, NJ**

*Present-Summer 2024*

**Cranford, NJ**

*2017-2020*

## WORK EXPERIENCE

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**Kushner Studios Architecture + Design**

*Architectural Intern*

**NYC**

*August 2023-January 2023*

- Assisted architects and other team members with drafting and designing architectural plans.
- Creating and editing 3D digital models.
- Conducting site visits to assess building conditions.
- Attending meetings with team members and clients.
- Creating and preparing presentations.

**Pegasus Sporting Goods**

*Customer Service Associate*

**Newark, NJ**

*August-December 2019*

- Provided customers with information.
- Managed inventory of sports apparel.
- Spoke with customers using English, Portuguese, and Spanish languages. I learned to apply myself to any demographic background as efficiently as possible.

**Shop-Rite**

*Cashier*

**Cranford, NJ**

*2015-2019*

- Began as a cashier, but quickly adapted to multiple positions within the company. Every shift was unique and I became a prominent multi-purpose employee.
- Became responsible for closing the store and overseeing operations.

## LEADERSHIP EXPERIENCE

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**New Jersey Institute of Technology**

*Volunteering*

**Cranford, NJ**

- Volunteered for the American Institute of Architecture Students (AIAS) and NJIT Architecture Club to coordinate and help assist events, volunteering for the 3D printing lab and printroom.

**Union County College**

*Project leader*

**Cranford, NJ**

- Project leader for a spring semester course. The project required multiple interviews and communications with high schoolers from Sierra Leone. Presented a thesis on the impacts of the drastic differences between life in West Africa and the United States.

## SKILLS & INTERESTS

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**Computer:** Revit, Rhino 3D, AutoCAD, Adobe Suites, Enscape, Lumion, Vray, Microsoft

**Skills:** Communication, Positive attitude, Efficient, Creative thinking, Resolution oriented

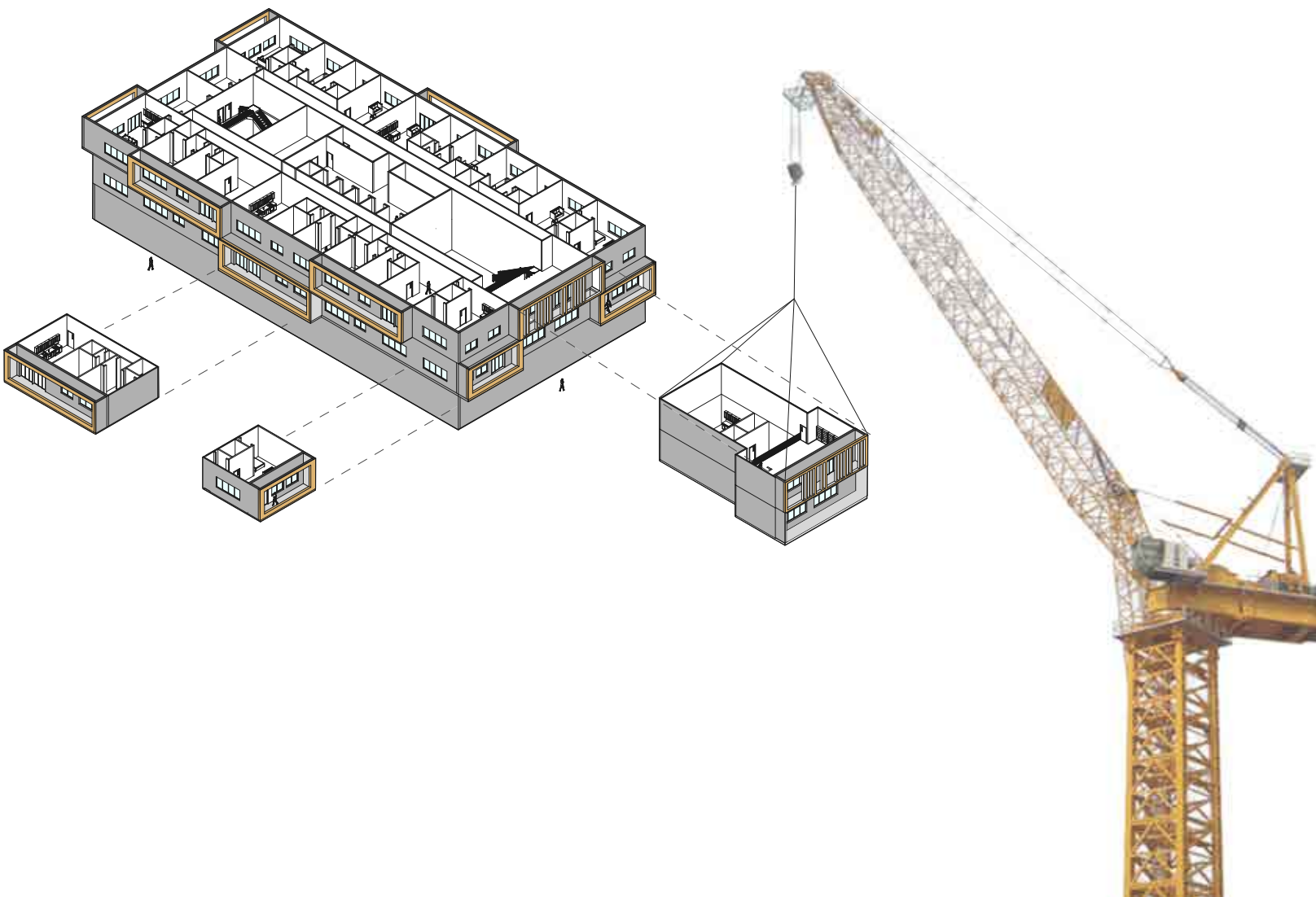
**Languages:** English, Portuguese (Advanced), Spanish (Proficient)

**Interests:** Reading, Sketching, Graphic Design, Podcasts, Exercise, Biking, Hiking

John Goncalves

# Architecture Portfolio

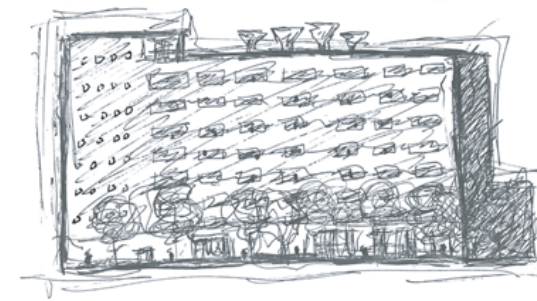
Selected Works



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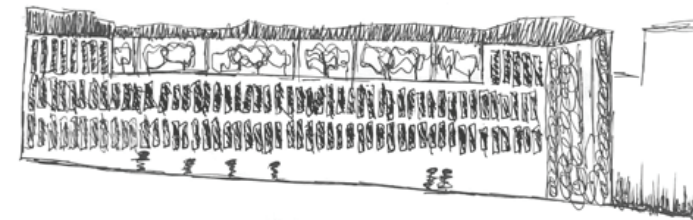
spring 2022 - fall 2023



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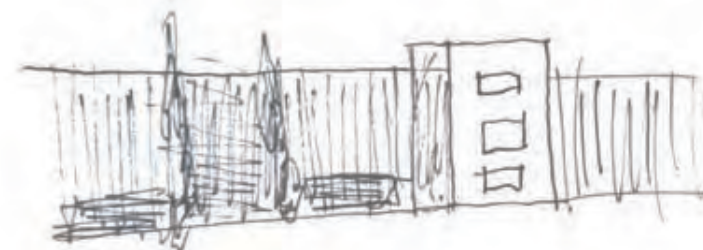
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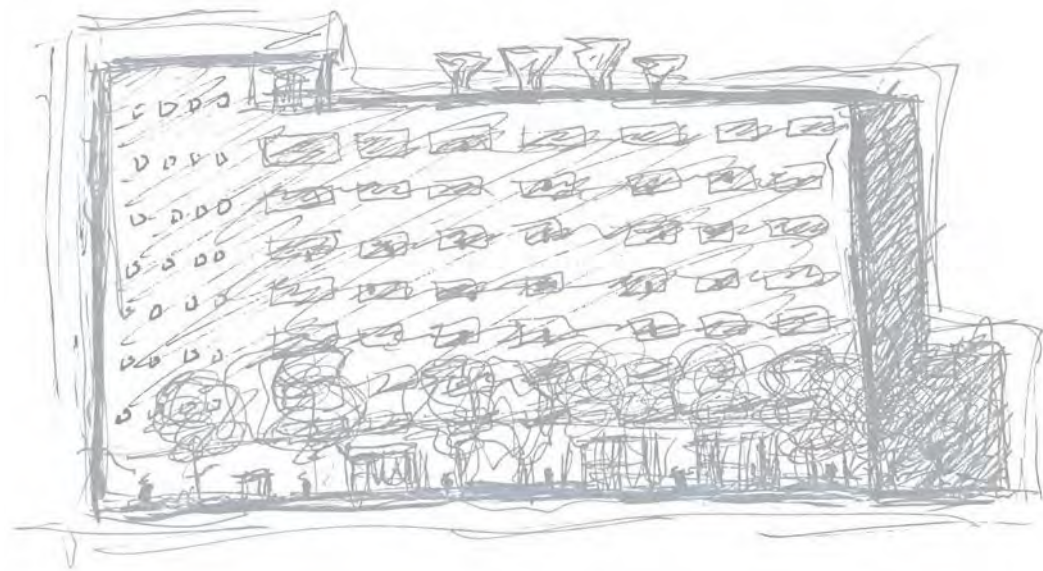
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The Canaletto Museum  
fall 2023

# Homage D' Habitation

a place for inhabitants to shop, play, live, and come together

fall 2022



ROOFTOP PERSPECTIVE

Homage D' Habitation is a housing project located in Newark, New Jersey's, University Heights district. The area flourishes with students, professionals, and the vibrant community that the campuses have to offer. The building designed for this project has roughly 75,000 square footage of unit living spaces. The project calls attention to the most inevitable issue architecture faces, change. In precedent architecture cases, the dominate founders of architectural history seldom had to think of the strifes of today's times. A successful housing project today incorporates those strifes and key issues into building, and synthesizes them with the design itself. Overall, a holistic yet influential project

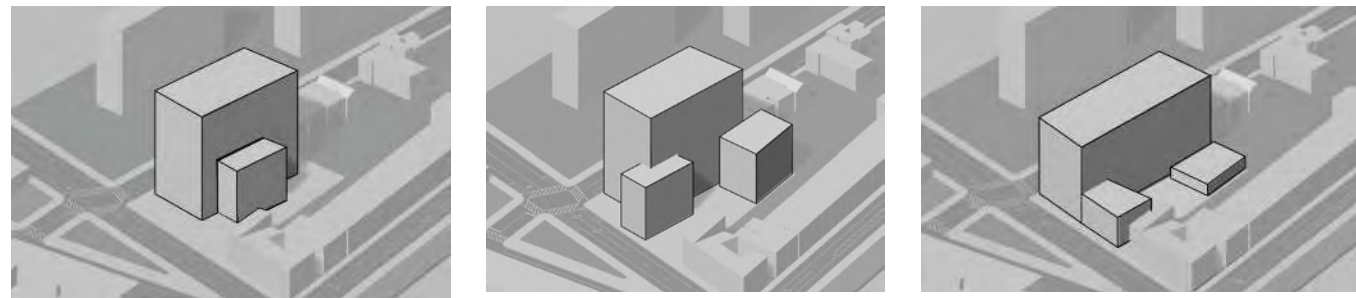
is required to begin the accommodation for changing times. Although previous architecture may not seem to be too correlated to the faces of climate change and other problems, it is worth noting that some of these precedents can still carry aspirations that can show what the future of architectural design can become. One housing project worth noting is the Unite D' Habitation by Le Corbuiser. This housing project is without a doubt the most distinct housing project in history (and my favorite). This Homage takes Corbuiser's ingenious and attempts to bring them to Newark, New Jersey. The plethora of innovative concepts adapted with Unite, are some of the key features of the Homage.



SITE PLAN (TOP VIEW)



SUMMIT ST. ELEVATION



MASSING DEVELOPMENT

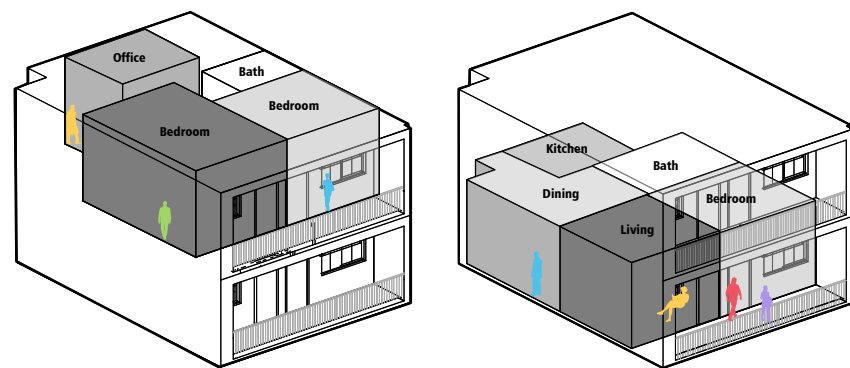
The massing developments began as two distinct sizes of a rectangular prism. As the massing iterations were developed further, it led to a final large mass with different heights and an outdoor courtyard space. Along the street market is a four story height where a two story daycare has a roof-top playground. In the Site Plan, you can see the hierarchy between the projects program. The street has a food market and the building's orchard has a greenhouse which the produce market vendors can grow there food. On the rooftop is a club for the residences and a expansive outdoor space.



MLK. BLVD ELEVATION



LEVEL 2



SPATIAL DISTRIBUTION DIAGRAM

The second story of the housing project includes the project's gym. Throughout the hall the apartment units doors are set back to provide the residences' entering privacy. Each duplex floor has a balcony space which provides the occupants a space to be connected to fresh air. Each balcony space is varies in colors and gives the exterior facade a colorful and welcoming aesthetic. As visitors see the greenhouse and orchard space they enjoy the uniqueness the housing project has to offer



ORCHARD PERSPECTIVE

# Solar Meadows

a place for learning after the covid crisis

spring 2022



During these dire times our society has found itself in, the common well being of people has been utterly depleted. But we as humans adapt to our lives and so should our buildings. Successful learning in times of crisis does not reside in studios, research spaces, or laboratories. It resides within the community we all find has been severely impacted from COVID-19. This projects proposal to create multiple open spaces that will create a strong sense of community within all its visitors. Not only can the architecture community take a breath of fresh air, but they can find a friend in which they exchange small, yet impactful moments of learning everyday. Solar Meadows is located on the existing NJIT campus bookstore and is inspired by the brilliance of the tri-states area rich meadow history. The building also takes in inspiration from the site itself, and is a series of ramps and floor

slabs that one can travel which passing a single staircase. By designing a outdoor space as a series of ramps and not stairs, visitors that are disabled find themselves in a design strategy that is truly universally accessible. The ramps on the exterior also travel upwards into the building itself. This zig zag circulation opens more space to incorporate the projects vegetation plan. The plant life is from a local New Jersey company that specializes in economical and ecologically friendly plant life. The meadows planted are low in cost, and easy to maintain. On the street side of the project, a solar facade collects sunlight to provide the building with support in electrical power, and help the environment. Finally, a rainwater collection system takes advantage of the projects slope, and treated water is utilized for the buildings potable water and the meadows itself.



SOUTH-WEST ELEVATION



NORTH-EAST ELEVATION

The Warren Street elevation shows the buildings solar facade. The main focus of the facade is to open the door for solar technologies that are better for the environment. The roof has a 30 degree angle to collect as much sun rays at possible for the facade and roof. The facade also contains a trellis wall in which a green wall will flourish. From the campus side of the project, the elevation shows the planned meadows, and the cherry tree rooftop.

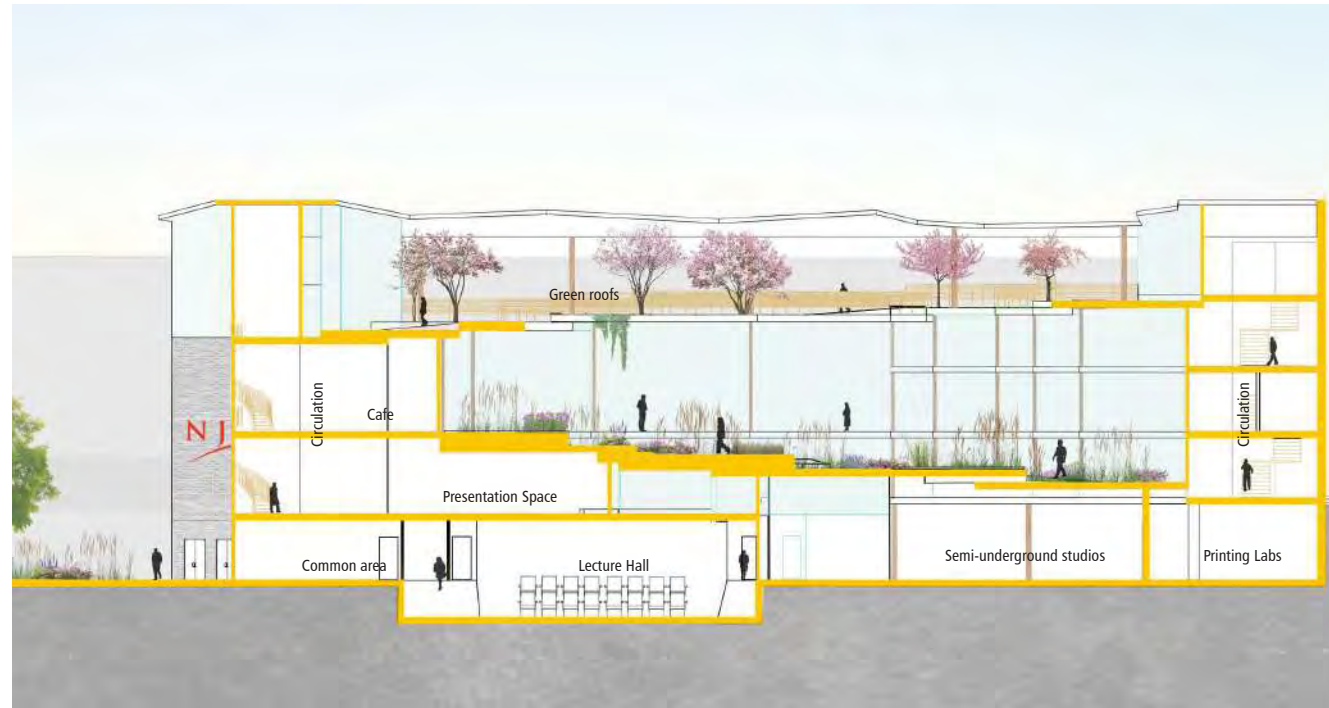
In the South East facade, you can see all the facade components in one elevation. This elevation also shows the lush meadow plan and the visuals that the landscape provides. After times of COVID-19, buildings should incorporate spaces for individuals to enjoy and elevate the mental well being of the user groups. If done successfully, the building will be a place that everyone will enjoy and return to, raising the worth of the project.



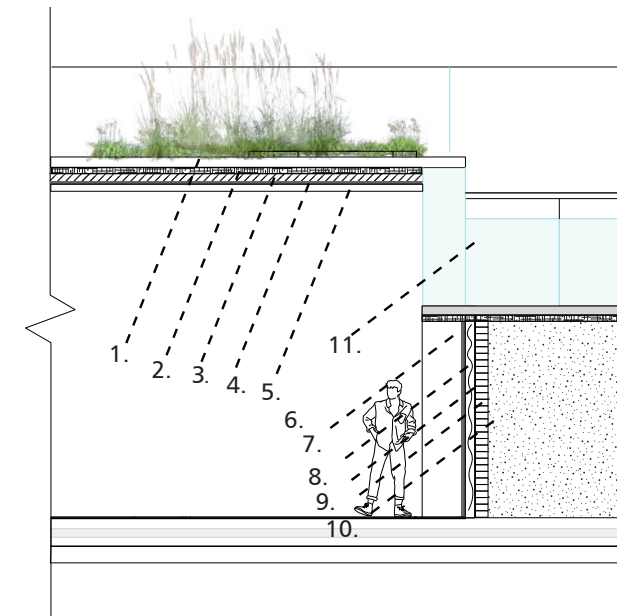
SOUTH-EAST ELEVATION

Section A is a section cut through the longer side of the building. The section shows the different programmatic spaces and where the meadows reaches the top of the site's slope to the third floor of the building. An individual travels up the ramps of the meadow to the third floor where the building has a cafe for the community. The cafe was added because of the campus' lack of social spaces, and the project's main concept of increasing the well-being of the community.

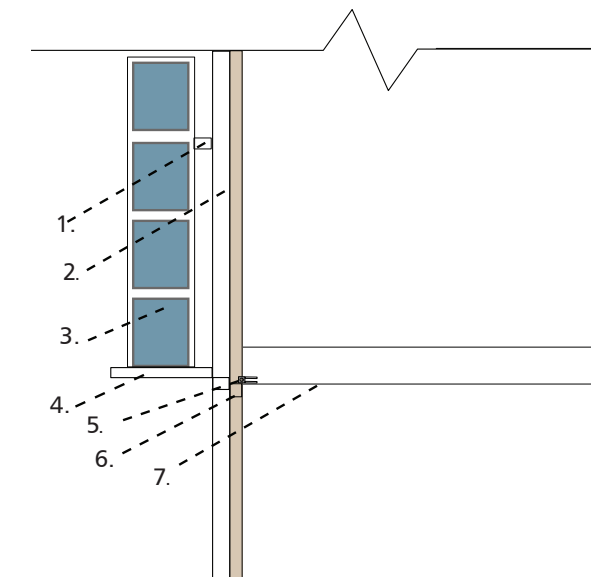
Section B also shows the buildings programmatic spaces and shows the lecture hall/ theater that is located on the ground floor. The ground floor has multiple skylights that view the meadow spaces on the buildings exterior. As a person walks through the meadows they are able to see the different programmatic elements on the first floor. The landscape also allows for an entrance to the buildings second floor from the meadows, where the presentation galleries are located.



SECTION A



- A: Underground Studio
1. Green roof
  2. Roof membrane
  3. Waterproofing membrane
  4. Sheathing
  5. Thermal insulation
  6. Reinforced wall
  7. Insulation
  8. Waterproofing membrane
  9. CMU brick
  10. Exterior ground
  11. Glass panels



- B: Solar Panel Facade
1. Curtain wall horizontal support
  2. Glass panel
  3. Solar panel shading device
  4. Solar panel support
  5. Bracket
  6. Timber frame
  7. Floor Slab

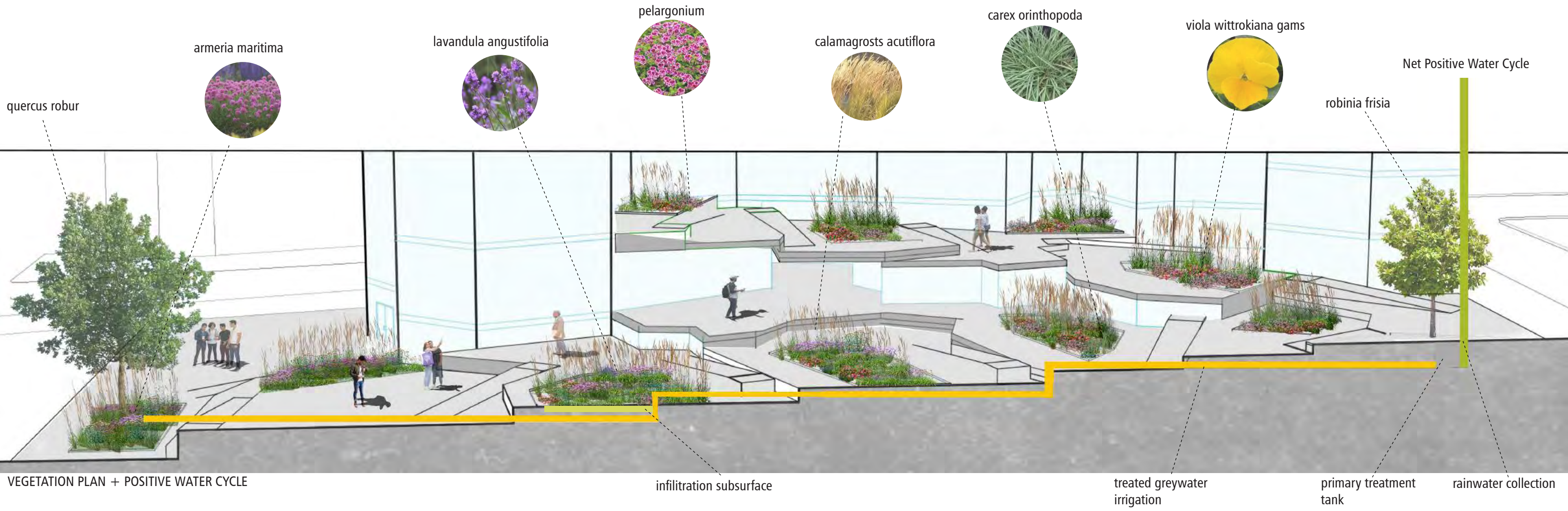


SECTION B

- vertical circulation
  - horizontal circulation
  - exterior spaces
- AXON LEGEND



EXPLODED AXON



The landscape uses a series of ramps instead of staircases to truly create an accessible experience everyone can enjoy. A truly accessible design strategy to this day, is still truly an underdeveloped focus in architecture. The landscape uses a plethora of plants found in the New Jersey meadows. The vegetation plan creates a picturesque expanse of grass, colorful wildflowers, and tall swaying stalks. The project's water collection system treats water for the buildings potable water and help provide water for the meadows.



MEADOW PERSPECTIVE 1



MEADOW PERSPECTIVE 2



MODEL PHOTO



MODEL PHOTO



SOUTH-WEST PERSPECTIVE

# The Canaletto Museum

an art gallery framing venice

fall 2023



EXTERIOR PERSPECTIVE

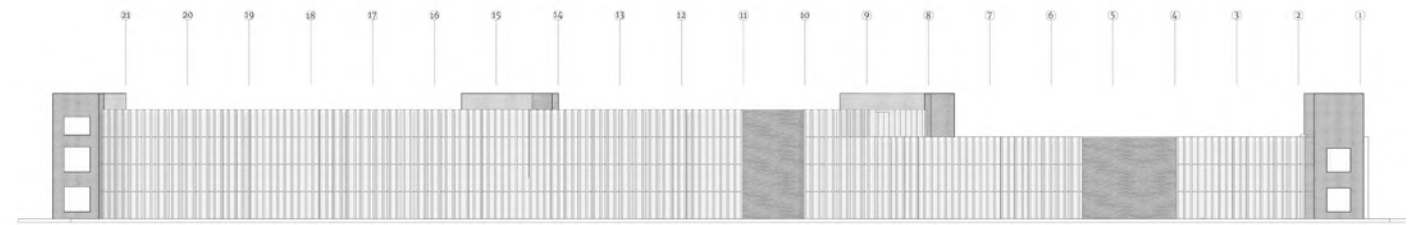
The Canaletto Museum at Misericordia in Venice offers architects a once-in-a-lifetime opportunity to create a cultural landmark that not only showcases the prolific works of Canaletto but also integrates with the rich history and charm of Venice itself. Situated in one of the most coveted locations in the world, the site presents a myriad of physical and historical considerations that must be deeply understood to inform the museum's architectural design. From its proximity to the waters of the canal to the surrounding historic buildings that whisper tales of centuries past, the site's characteristics must be carefully studied and respected in order to create a design that not only harmonizes with its environment but also stands out as a beacon of modern innovation in this ancient city. With a deep appreciation for the site's qualities, one can craft a design that not only captivates visitors but also pays homage to the timeless beauty and allure of Venice.

Furthermore, studying Canaletto's iconic artwork, such as *The Stonemasons Yard*, can provide invaluable insights and inspiration for the museum's architectural design. *The Stonemasons Yard* stands as a masterpiece capturing the essence of everyday life in Venice, skillfully portraying the intricate details of the city's architecture and the vibrant activity of its inhabitants. By dissecting the composition, perspective, and themes present in this renowned work, architects can draw upon elements such as light, scale, and rhythm to inform their design approach. Embracing these key aspects of Canaletto's work not only establishes a profound connection between the museum and the artist's oeuvre but also enhances the overall visitor experience by immersing them in the captivating world that Canaletto painted with such artistic brilliance and the enduring allure of Venice itself.

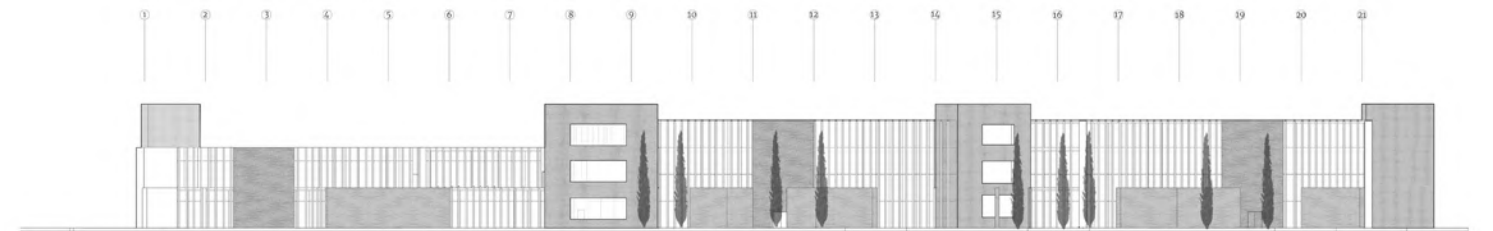


SITE PLAN

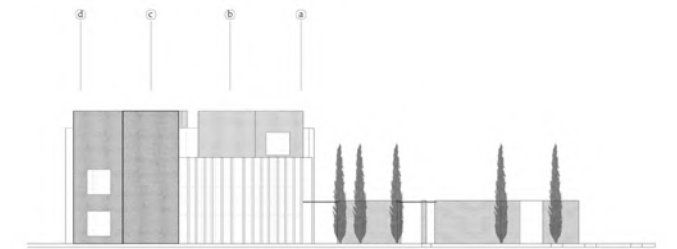
Through a solar analysis the East elevation received an extensive amount of daylight compared to its other facades. The facade includes a moveable aluminum louvre that follows the sun path, and allows for appropriate daylighting. Adjacent to the curtain walls and louvres are masonry walls that allow the modern building to also sit within its ancient Venetian context. These walls that are used to highlight the framed views within the program allow for its viewers to interpret the building from its exterior.



EAST ELEVATION

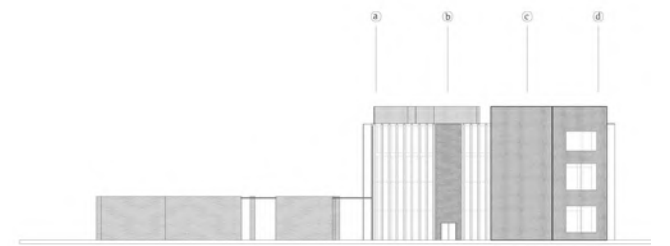


WEST ELEVATION

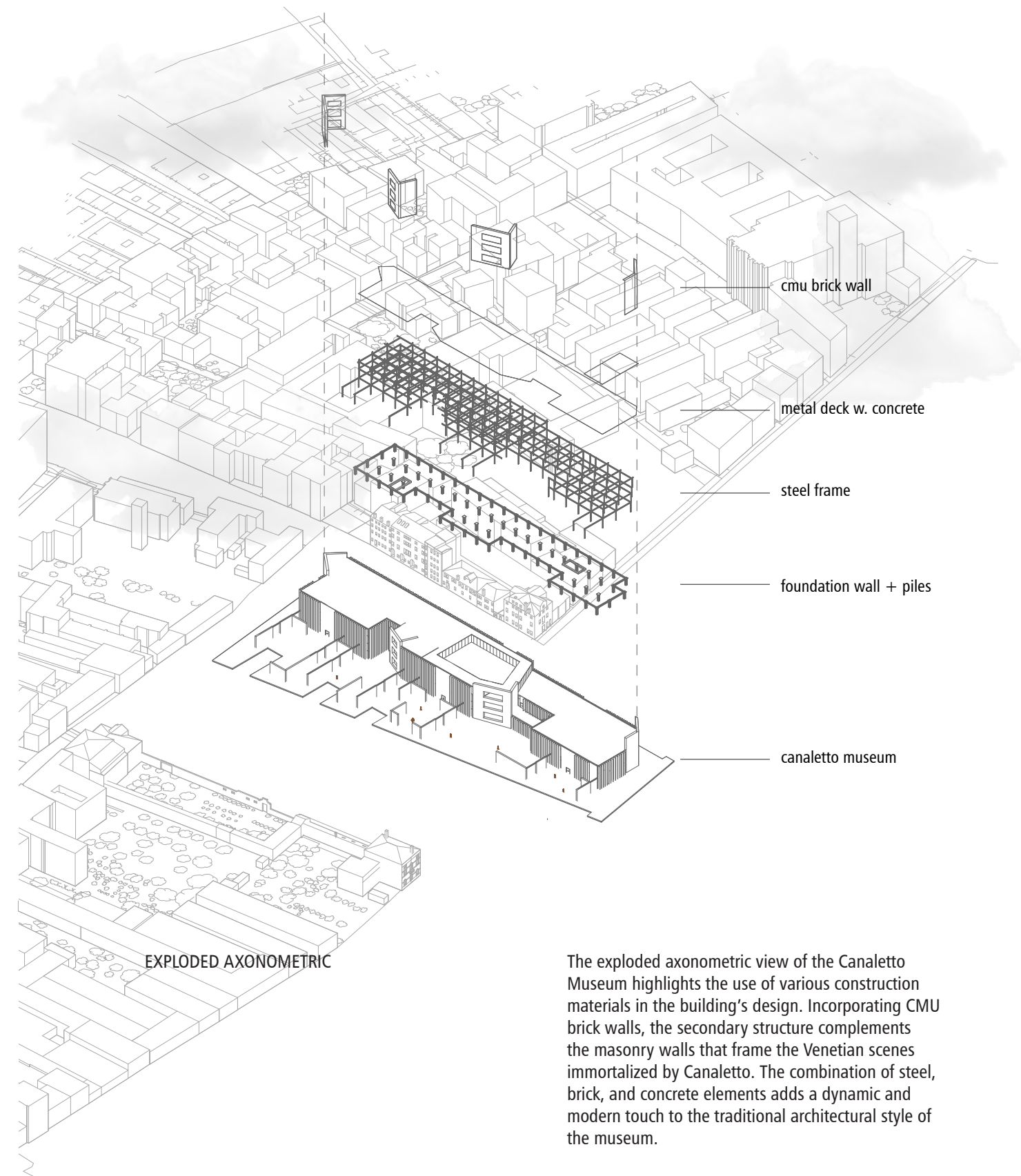
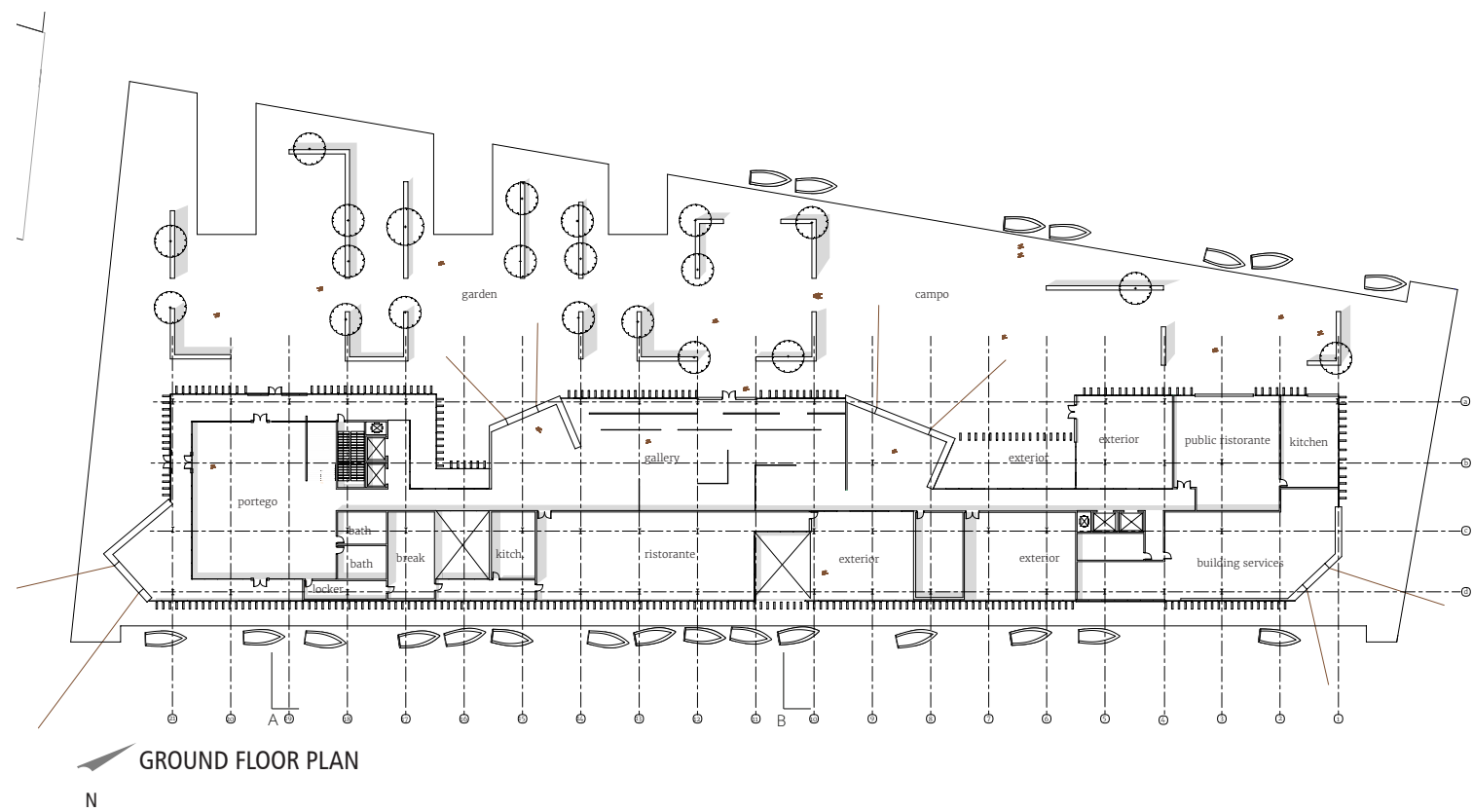
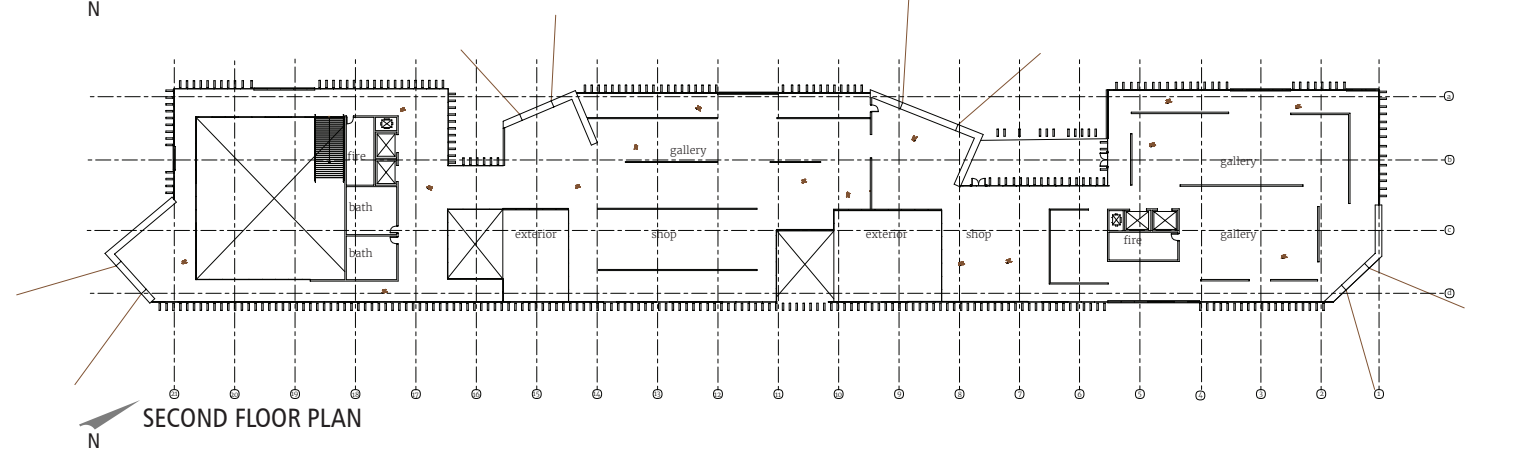
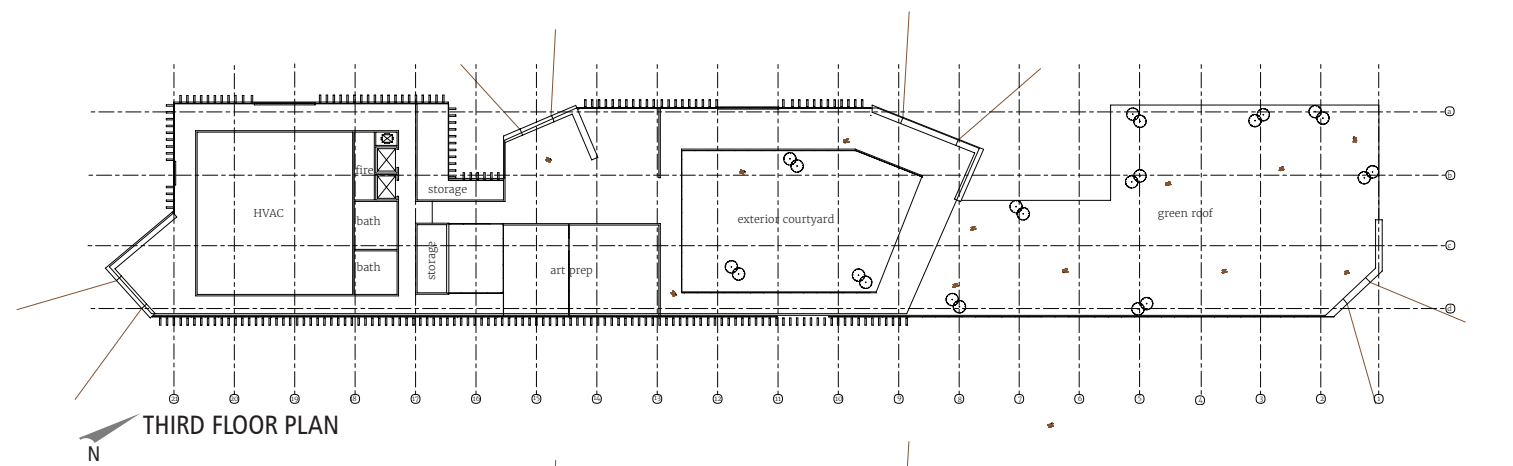


SOUTH ELEVATION

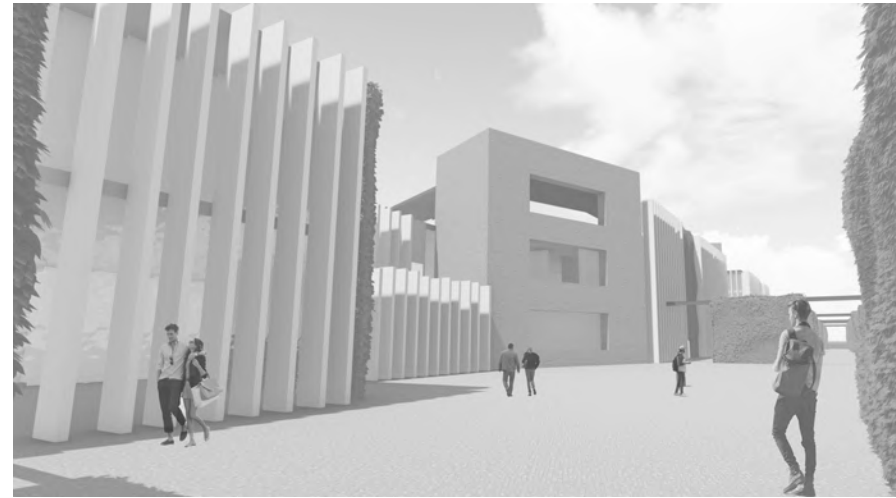
Situated atop the marina in Venice's picturesque Misericordia district, the building has multiple entrances that reflect the grandeur of its size and scale. The site encompasses a vibrant piazza and designed landscapes that pay homage to the timeless artistry of Italian landscaping, incorporating maze-like green walls that serve as a defining feature. These lush green walls not only enhance the aesthetics of the site but also play a crucial role in the integration of the surrounding environment with the building's primary structure.



NORTH ELEVATION



The exploded axonometric view of the Canaletto Museum highlights the use of various construction materials in the building's design. Incorporating CMU brick walls, the secondary structure complements the masonry walls that frame the Venetian scenes immortalized by Canaletto. The combination of steel, brick, and concrete elements adds a dynamic and modern touch to the traditional architectural style of the museum.

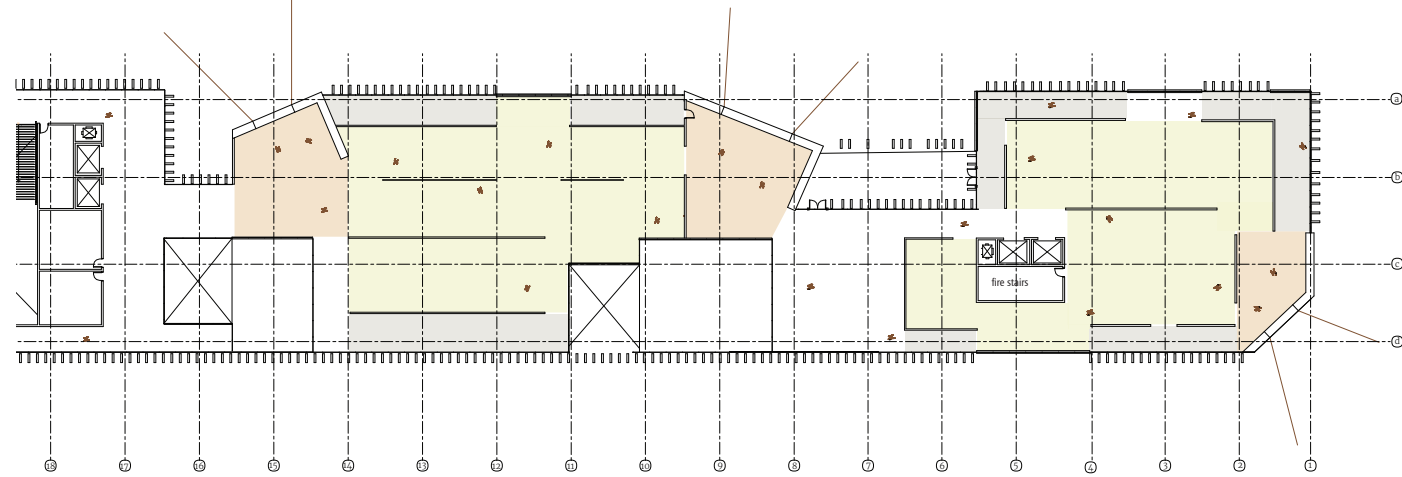


COURTYARD PERSPECTIVE

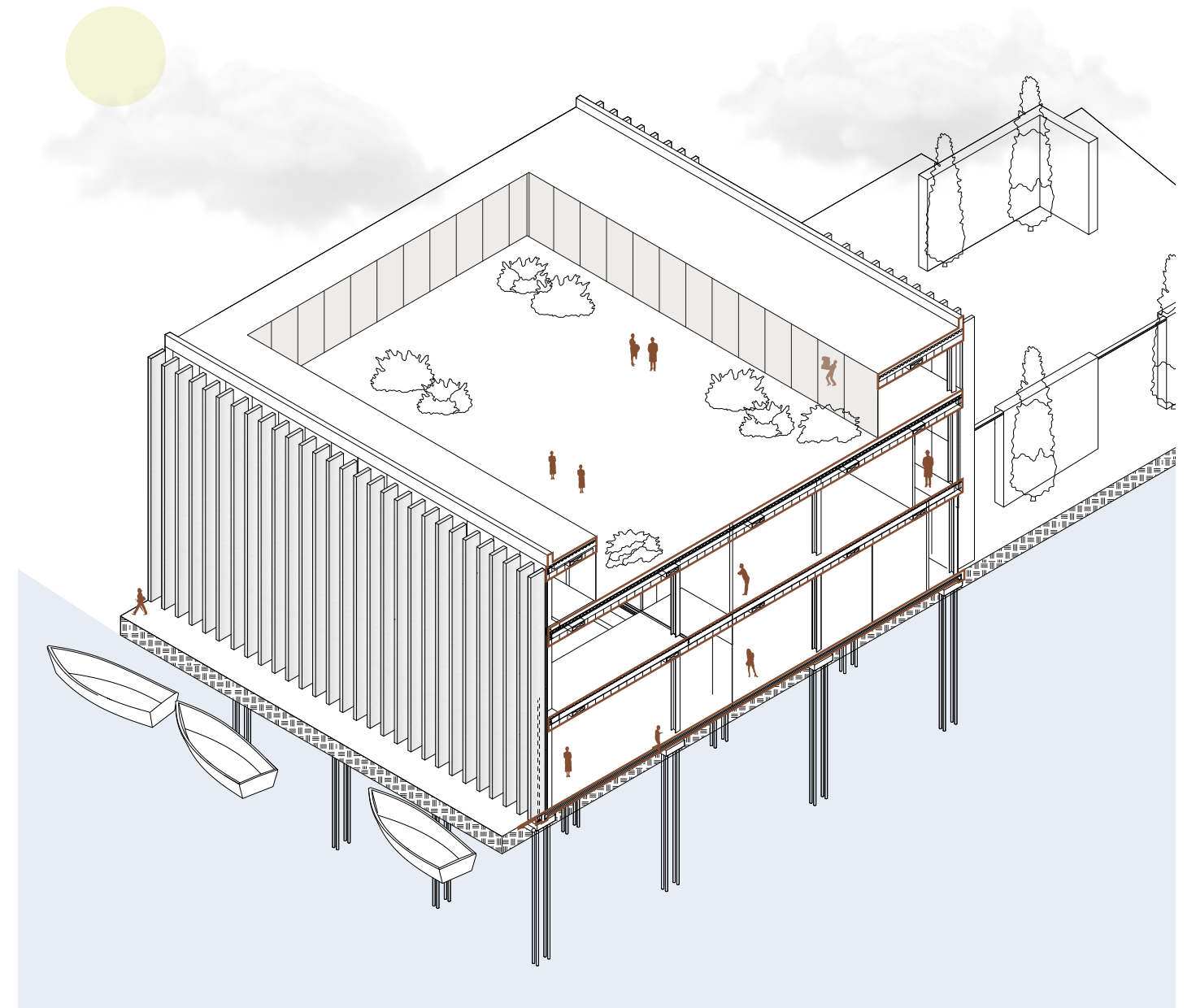


FRAMED VIEW PERSPECTIVE

- FRAMED VIEW
- VIEWING VENICE
- ART GALLERIES



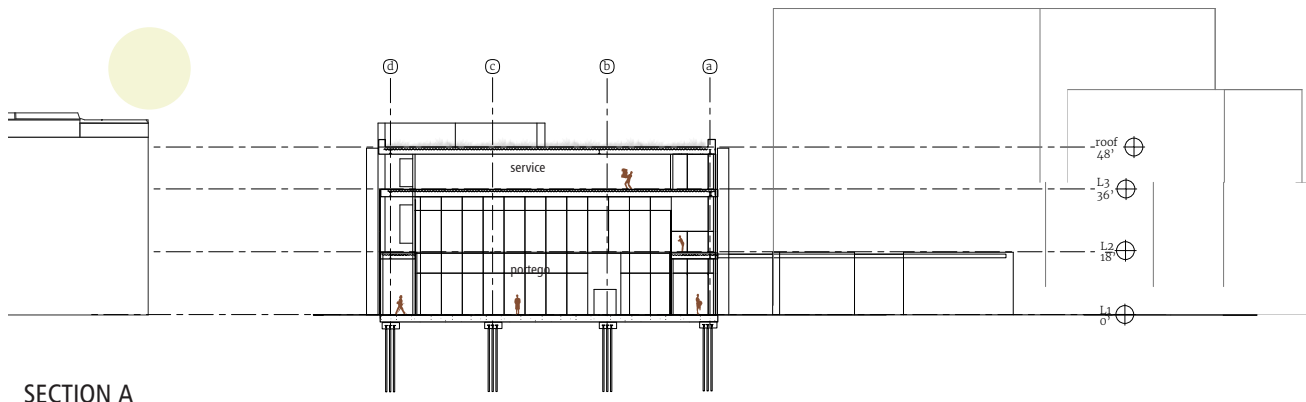
GALLERIES ORGANIZATION DIAGRAM



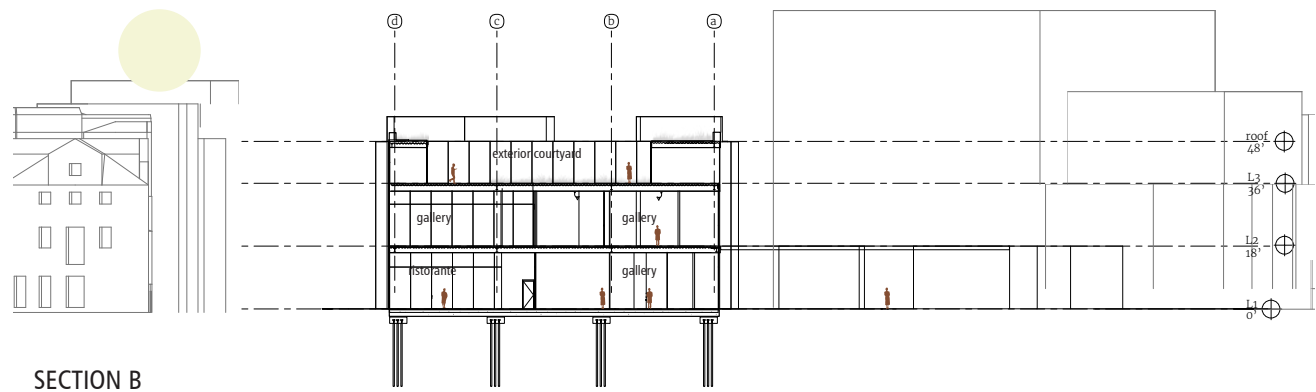
BUILDING SECTION AXONOMETRIC

The building section axonometric shows multiple aspects of the environment of the Canaletto Museum. The east elevation showcases moveable aluminum louvers that protect the building, while also allowing for a visually striking exterior. The entire site that is accessed through the Venetian boats allows for access through all points. Using a majority of the walls on the interior allows for the art galleries to feel private while also allowing the architecture to include a plethora of green spaces and natural daylighting.

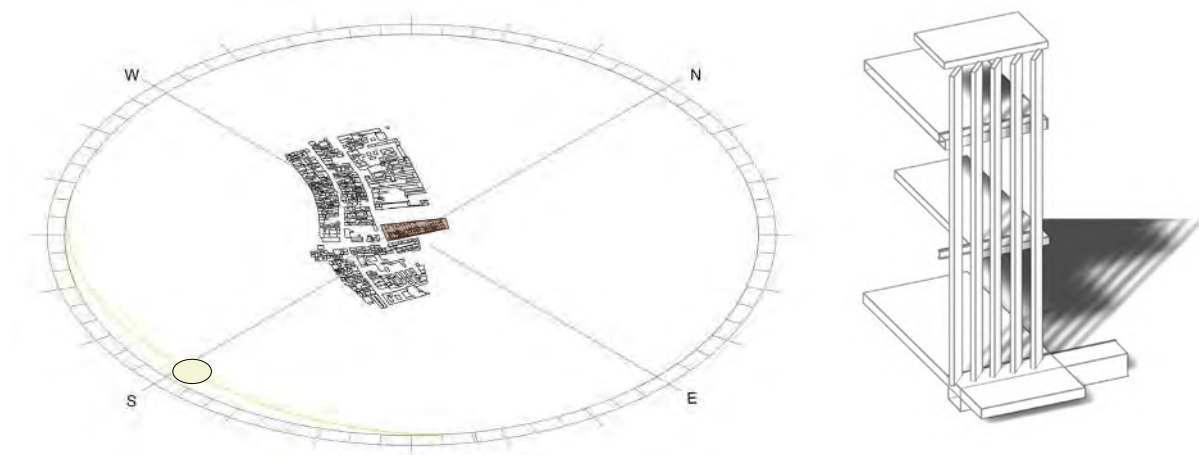
On the outside of each gallery space, a path allowing for viewing the city of Venice is shaded by the panels. Ultimately, while the building itself becomes a beacon that connects Canaletto back to Venice, and creating open spaces, green spaces, and spaces dedicated to Canaletto, the visitors can almost view the city as Canaletto once did when he made his famous paintings.



SECTION A



SECTION B

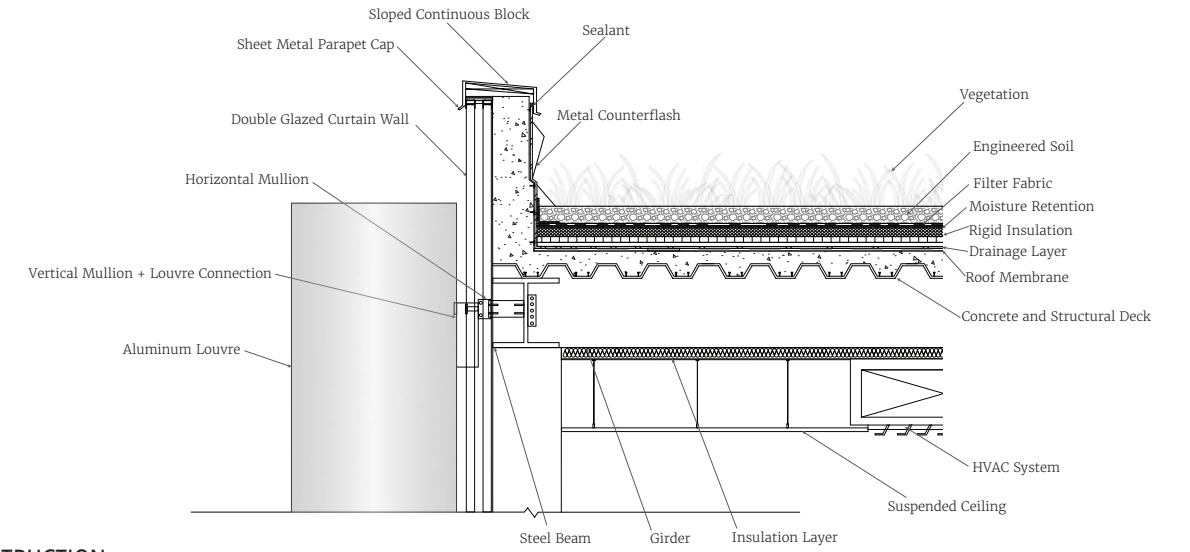


ENVIRONMENTAL RESPONSE:  
SUN STUDY + MOVEABLE LOUVRES

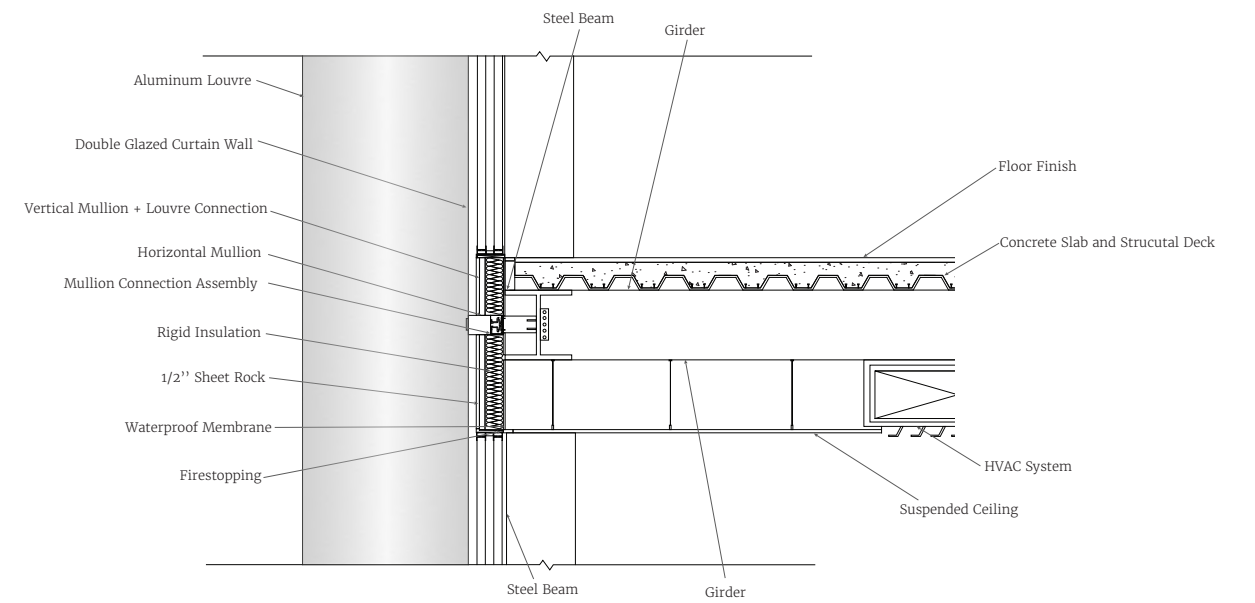
Section A highlights the grand entrance and event space known as the portego, serving as a welcoming connection point between the Canaletto Museum and the city of Venice. In Section B, the focus is on the gallery spaces and the main linear circulation pathway running through the center of the building.

The section details provide insight into the construction assembly of the roof, floor, and foundation of the building. Special attention is given to the movable louvres that track the sun's path, optimizing natural light and ventilation within the museum. This feature not only adds functionality but also adds a dynamic element to the building's design.

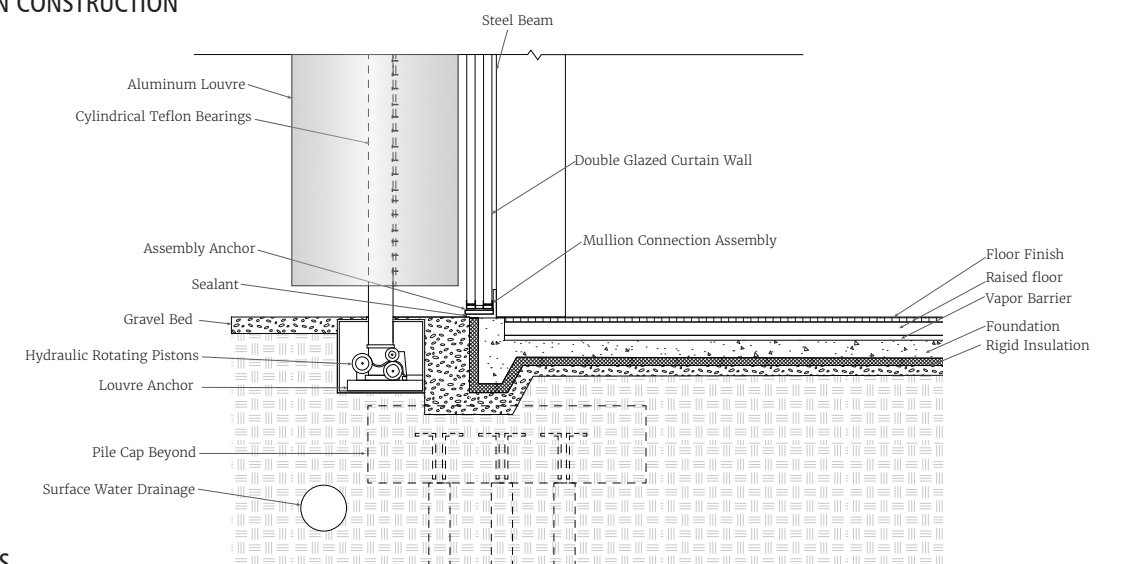
ROOF CONSTRUCTION



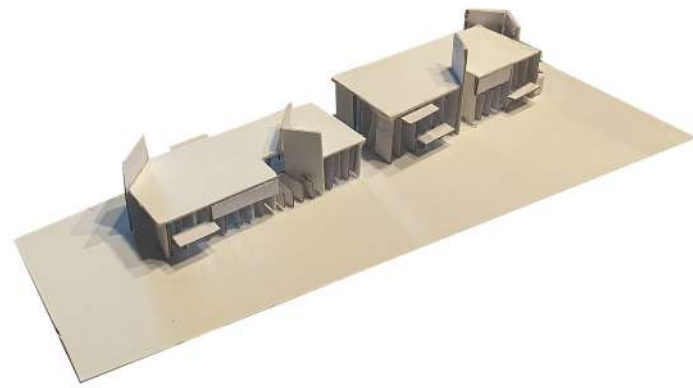
FLOOR CONSTRUCTION



FOUNDATION CONSTRUCTION



SECTION DETAILS



CONCEPT MODEL



MODEL PHOTO



MODEL PHOTO



FRAMED VIEW PERSPECTIVE

**Thank you!**