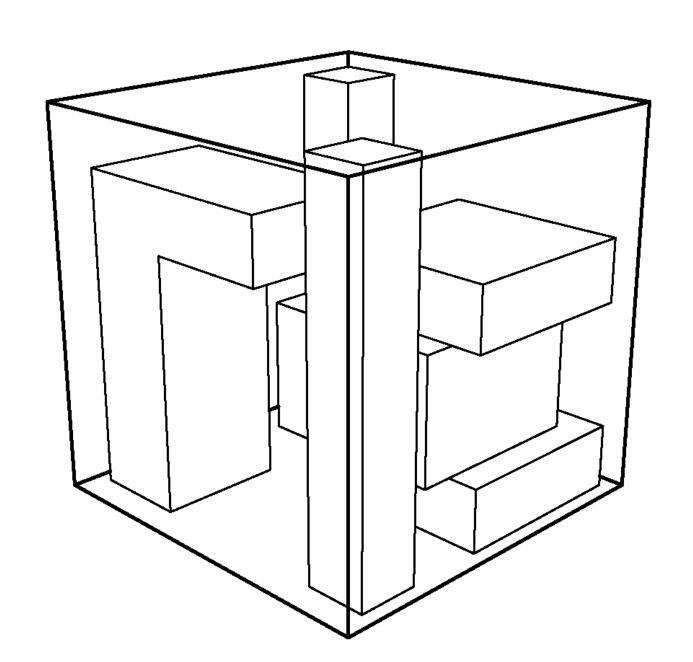
# Within and Without St. Paul Museum of Architecture

By Mitch Abrahamsen



#### Thesis Premise

Through architecture, a museum can frame the exhibits held within as well as the context surrounding the building, both physical and conceptual

#### Research

Multiple readings on museum design and architectural theory as well as an extensive series of case studies

## Design

intentionally deigning a museum to simultaneously frame internal exhibits as well as external context, both physical and conceptual.

## Museum Design

Through my research, I've identified the concept of framing as the most important element of museum design

#### What is "framing"?

- In photography: a technique to draw attention to the subject
- In film: a technique similar to framing in photography with the added element of movement
- In architecture: a construction method typically using wood or steel
- In social sciences: a set of concepts and theoretical perspectives that determine how people perceive reality

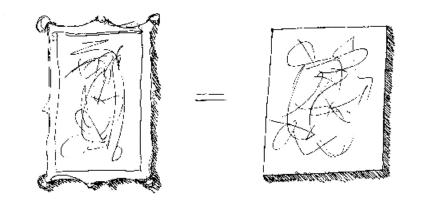
# Museum Design

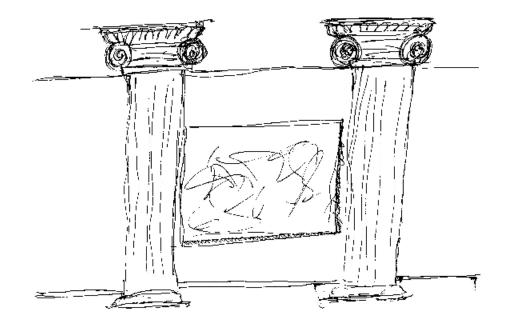
What does framing mean for museum design?

- Two quotes from Janet Marstine
  - "Framing is a metaphorical process that creates a vision of the past and future based on contemporary needs"
  - "Frames don't isolate a work from the wider world, they link the two."

#### Types of framing in a museum

- Internal framing: the exhibits within the confines of the building
- External framing: the surrounding context of the building and global ideas of the subject
- Physical framing: picture frames, glass cases.
- Non-physical framing: spatial volumes, lighting techniques, audio tours



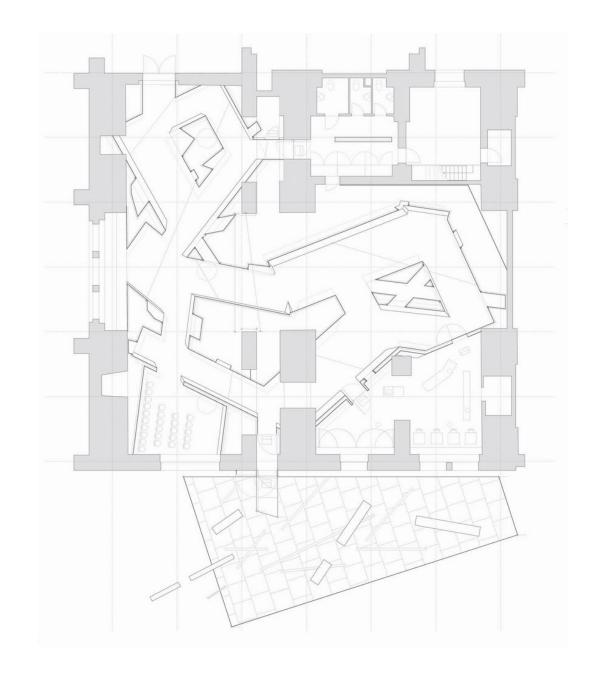


#### Case Studies

Danish Jewish Museum- Daniel Libeskind- 2004

- Framing though architectural experience
- The architecture plays a direct role in a visitor's perception of the exhibits
- Very choreographed and controlled experience

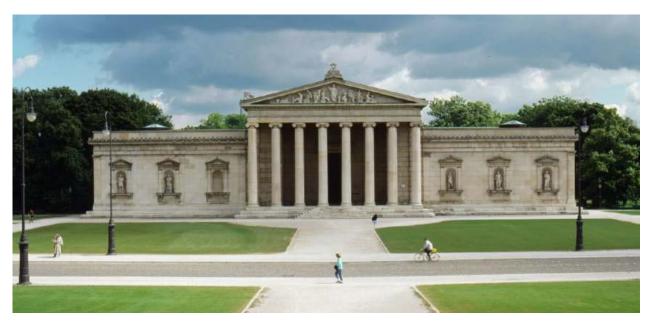




#### Case Studies

Glyptothek- Leon Von Klenze- 1830

- Framing though architectural style
- The museum of classical art is designed in the neoclassical style
- This creates a direct relationship between the architecture of the building and the subject of the museum





#### Case Studies

Museum of Modern Art- Yoshio Taniguchi, Edward Durell Stone, Philip Goodwin- 1939

- Framing though modernist design choices
- The architecture is stripped down to allow the art to speak for itself
- The flexible nature of the architecture allows the museum to be in flux, changing along with contemporary art



#### Museum of architecture

Breaking architecture down into two basic elements

- Representation: How we draw buildings
- Construction: How we build buildings

Part of this project is an attempt to blur the lines between representation and construction

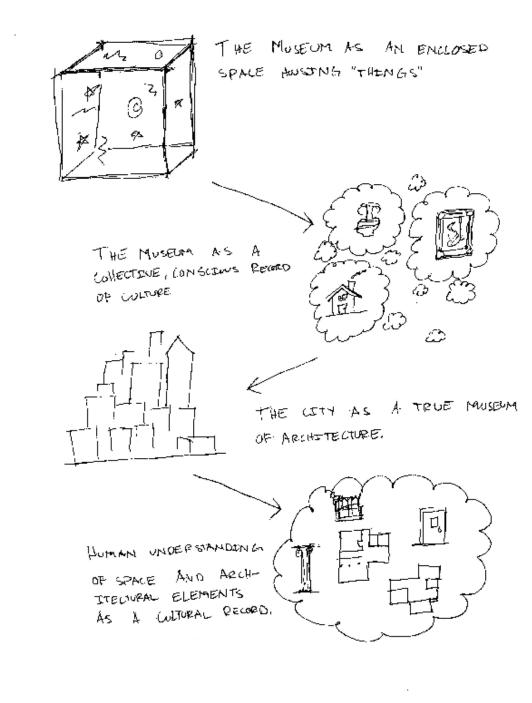
- Revealing the inner workings of the building through the exterior
- Making the design as transparent as possible, both figuratively and literally
- Educating visitors on architecture as they move through the building

#### Museum of architecture

The real museum of architecture is all around us in our cities and built environments

How can I draw this global exhibit into one physical location?

- Encouraging anyone from around the world to document their own perspectives on architecture
- Collecting documentation of these perspectives and weaving them into the physical form of the museum in St. Paul
- The museum then becomes framed by the global exhibit of architecture while framing it at the same time



## Frame Development

#### Global Installation

- Frame can be installed in any location around the world
- People passing by can look through the frame from any angle
- These people may notice architectural elements that they were previously blind to
- People would then be encouraged to document what they see through the frame with a picture and post it to the internet
- Those pictures would then be projected on to various surfaces in the museum

## Frame Development

#### Iterations

- A transparent plane with a square opening
  - The transparency implies that the frame is both physical and metaphorical at the same time
- A rectangular prism broken down to only six lines
  - The three-dimensionality of the frame allows it to be experienced from any angle
- A rectangular prism made out of transparent acrylic
  - Combining the three-dimensionality and the transparency





# Frame Development

Final Prototype







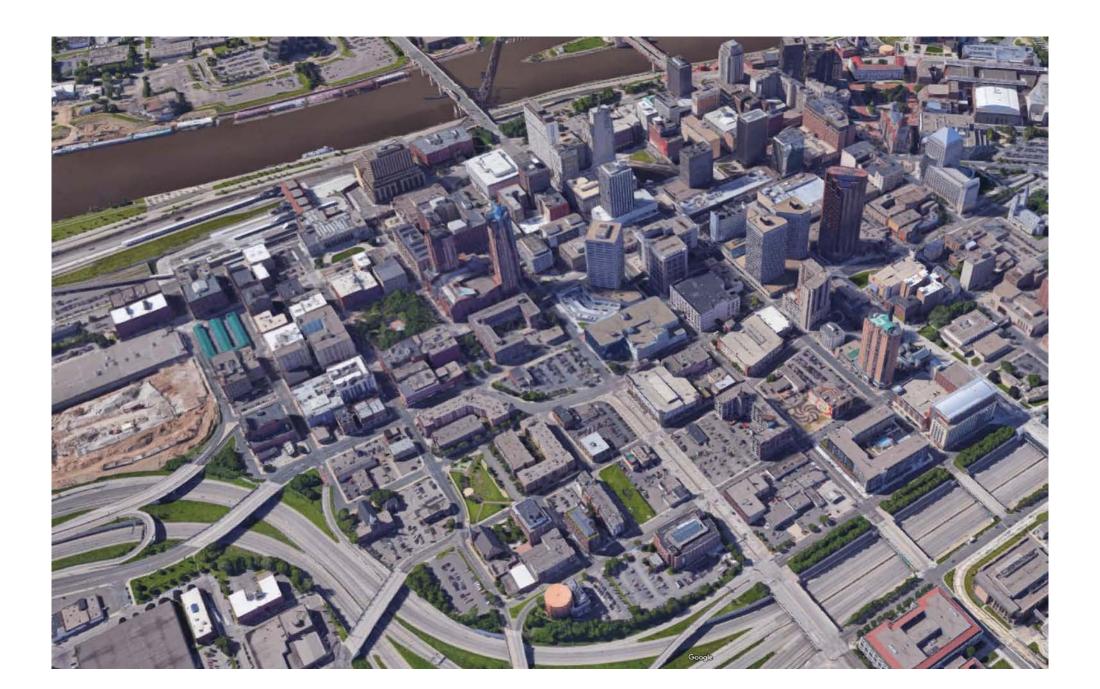
## Site

100 10<sup>th</sup> Street E, St. Paul, Minnesota





## Site



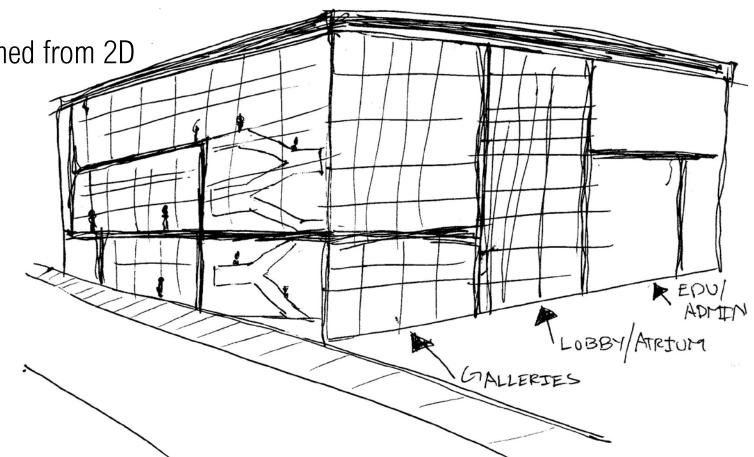
#### Façade as section

 Presenting the exterior faces of the building to appear as section drawings

Blurring the lines between drawings and constructed buildings

A display of how a 3D building is formed from 2D

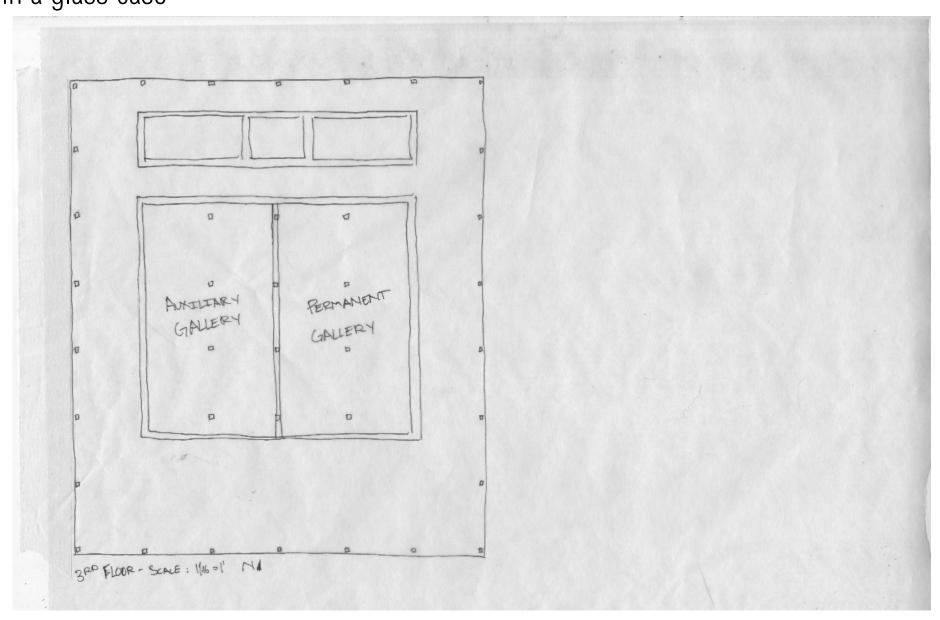
images

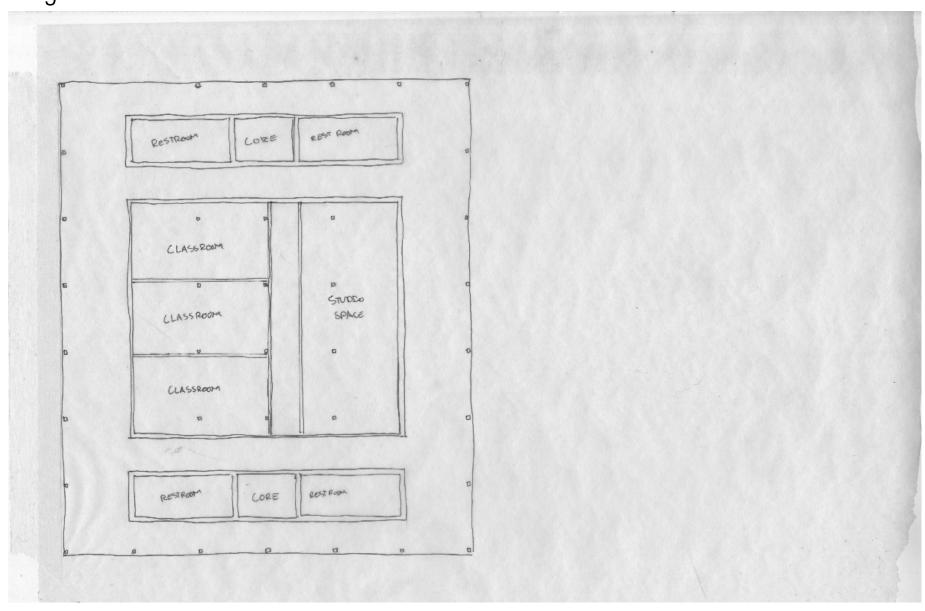


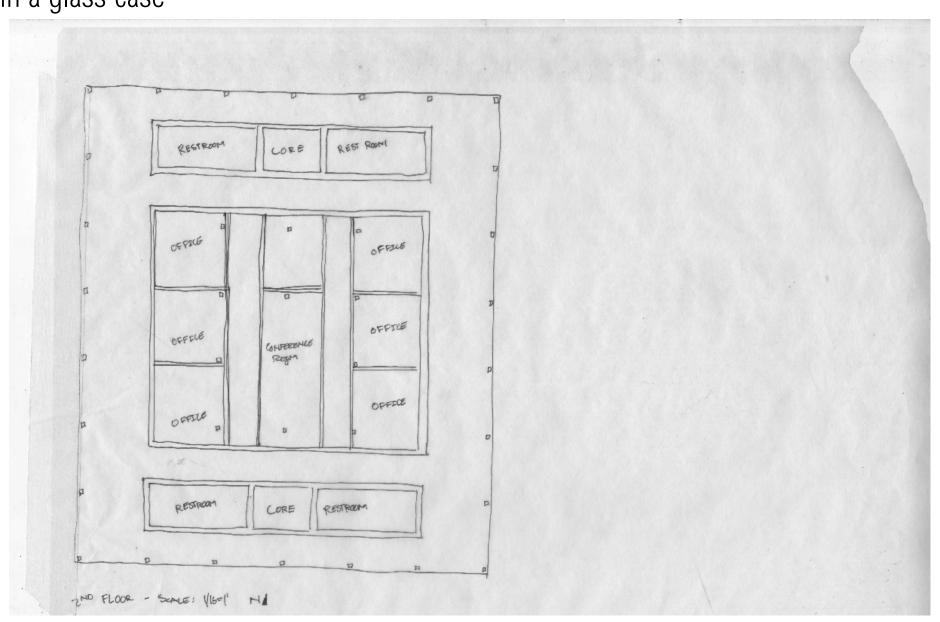
An object within a glass case

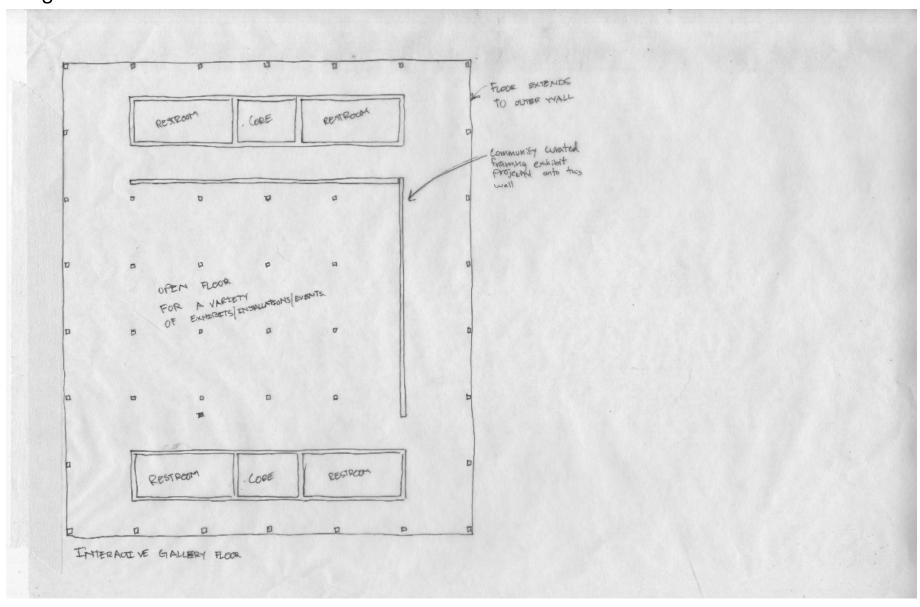
 Presenting the interior spaces as a singular mass within an all glass exterior case

• A direct metaphor of an object in a museum being framed by its container



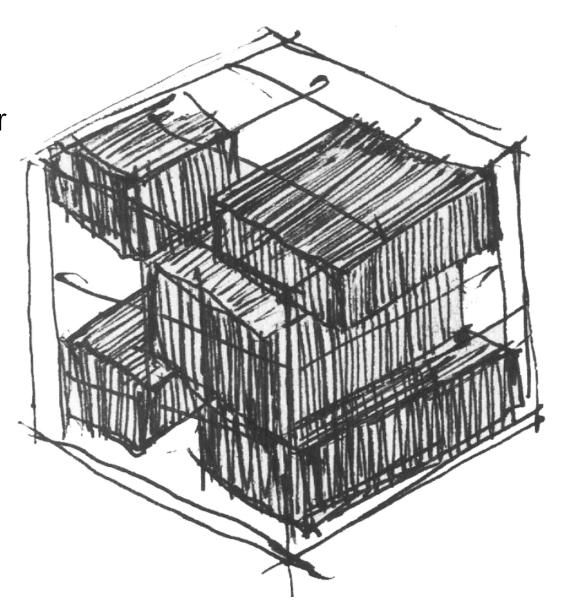






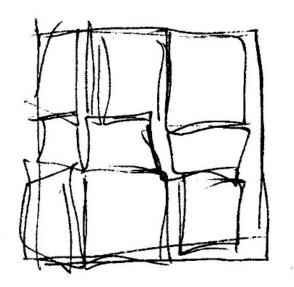
#### Combination

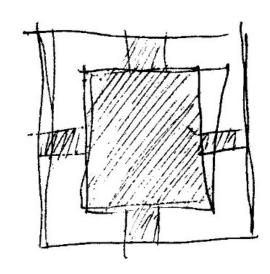
- A collection of masses within a uniform glass shell
- Each façade becomes a diagram of how the interior spaces are organized
- The building as a whole appears as different volumes held within a case

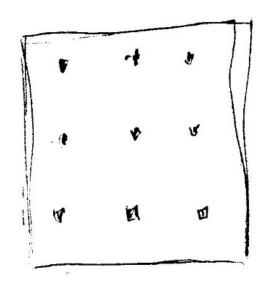


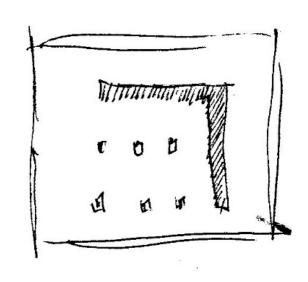
#### Combination

- Each floor is organized to fit the specific needs of the spaces it hosts
- The result is a collection of volumes as opposed to, one monolithic volume





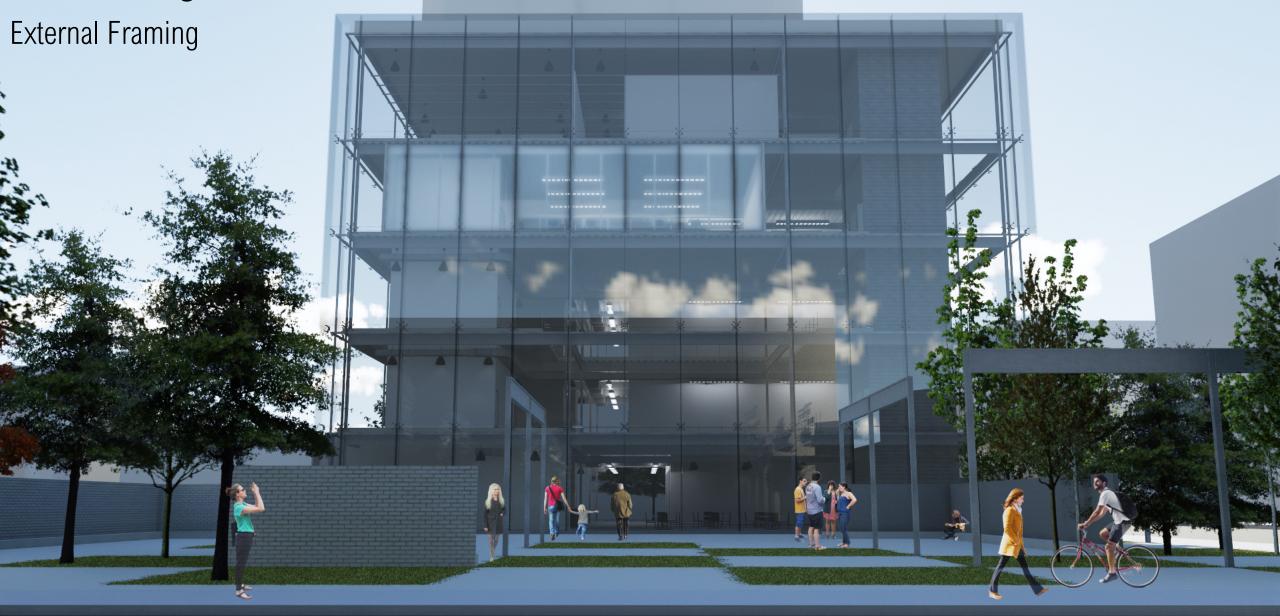




#### **External Framing**

- The internal volumes are framed by an external glass cube
- The building is framed by the physical context of St. Paul
- Reflections of the surrounding buildings can be seen on the glass façades
- The building is framed by the global exhibit of architecture through the crowdsourced images





#### **Internal Framing**

- Views of the surrounding buildings are framed by the internal structure of the museum
- The exhibits are framed by the structure and spatial volumes of the museum
- The global exhibit of architecture is framed by the physical form of the museum
- The structure, HVAC, plumbing, and electrical systems are exposed to frame the internal volumes
- A "structural garden" adjacent to the museum provides a display of different types of construction



# Final Design Internal Framing



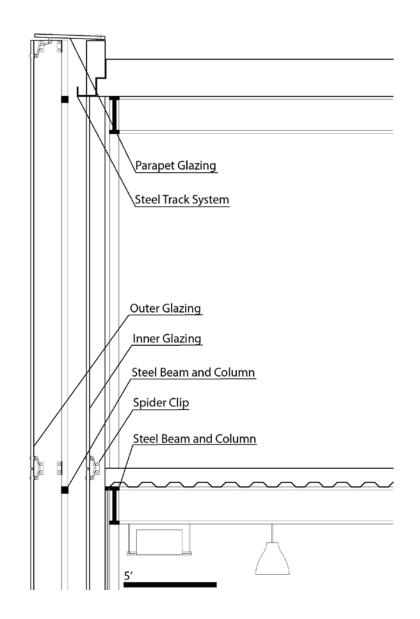
#### Main Gallery

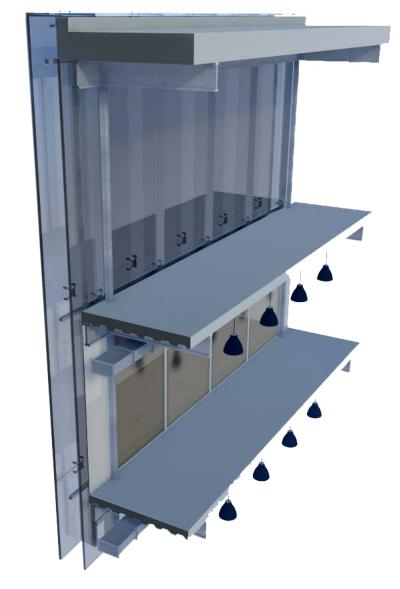
- Occupies the entirety of the 5<sup>th</sup> floor for panoramic views of the surrounding city
- Completely open floor plan allows for maximum flexibility
- Moveable wall panels on a track system to allow for an infinite arrangement of exhibits



#### Details

- Double skin
- Outer skin is completely thermally broken from inner skin
- Outer skin wraps over parapet
- Outer skin is held up by it's own structural system
- Inner skin is double glazed
- Inner skin connects to main structure
- Based off of the skin of RHW.2 in Vienna, a Passive Haus certified office tower





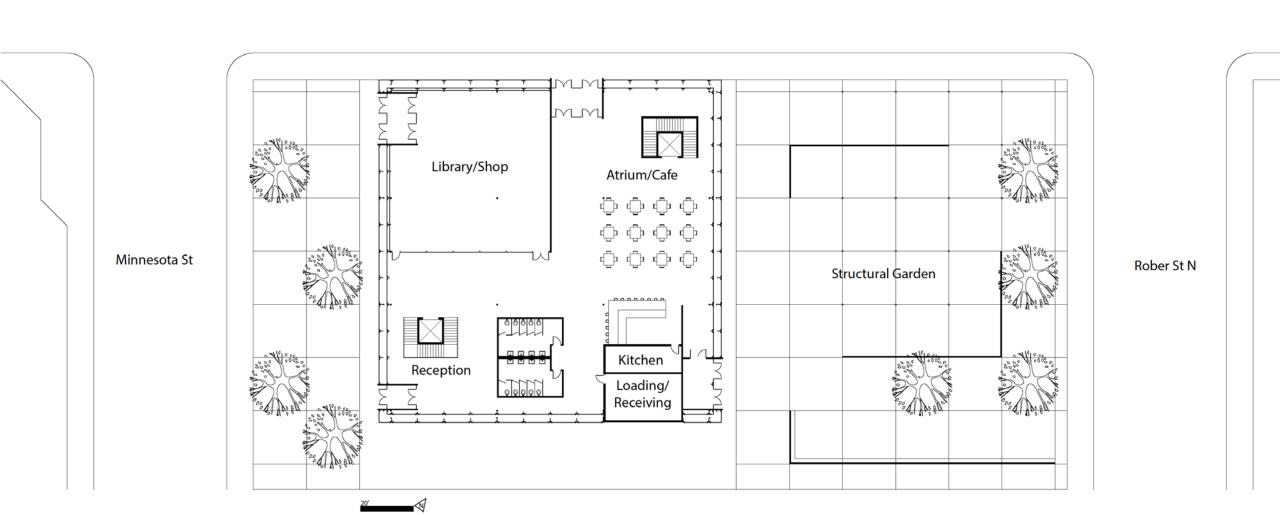
## Program

- Café/Atrium
- Library/Shop
- Permanent Gallery
- Auxiliary Gallery (2)
- Main Gallery
- Classroom (2)
- Open Studio Space
- Open Office Space

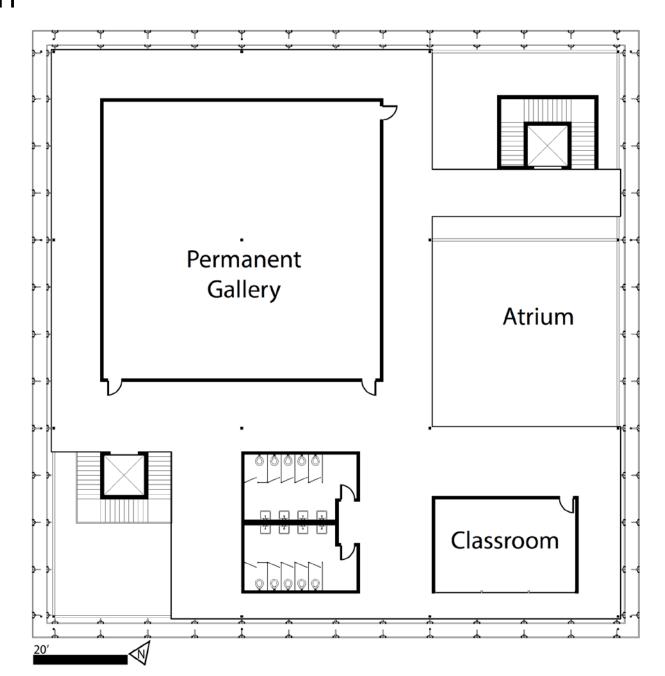
### Site and First Floor Plan



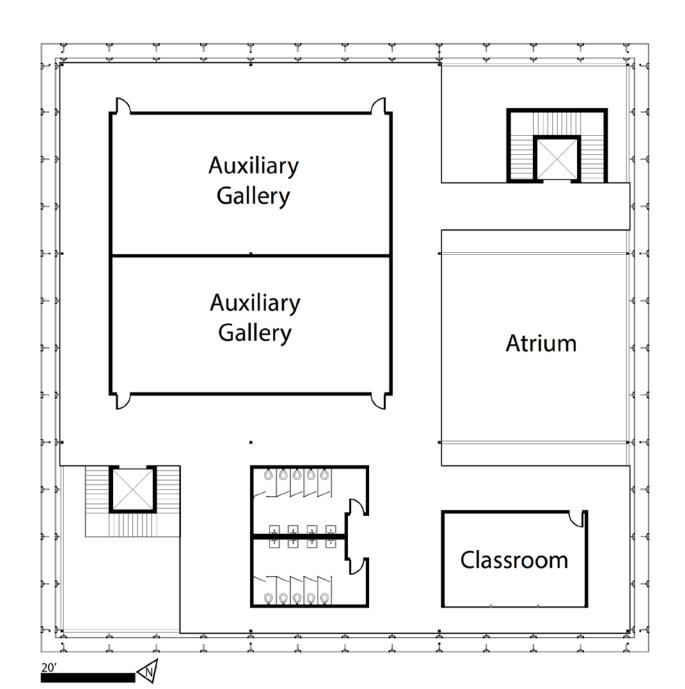
10th St E



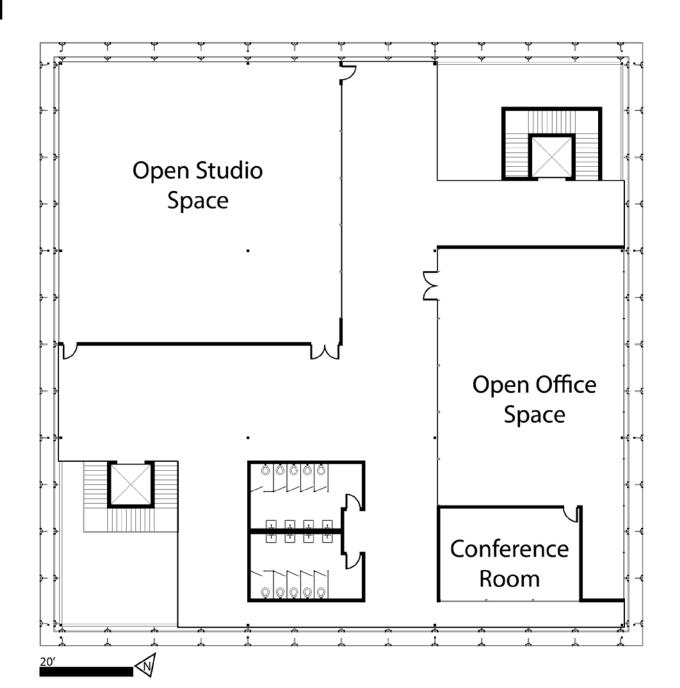
### Second Floor Plan



## Third Floor Plan



### Fourth Floor Plan



Fifth Floor Plan

