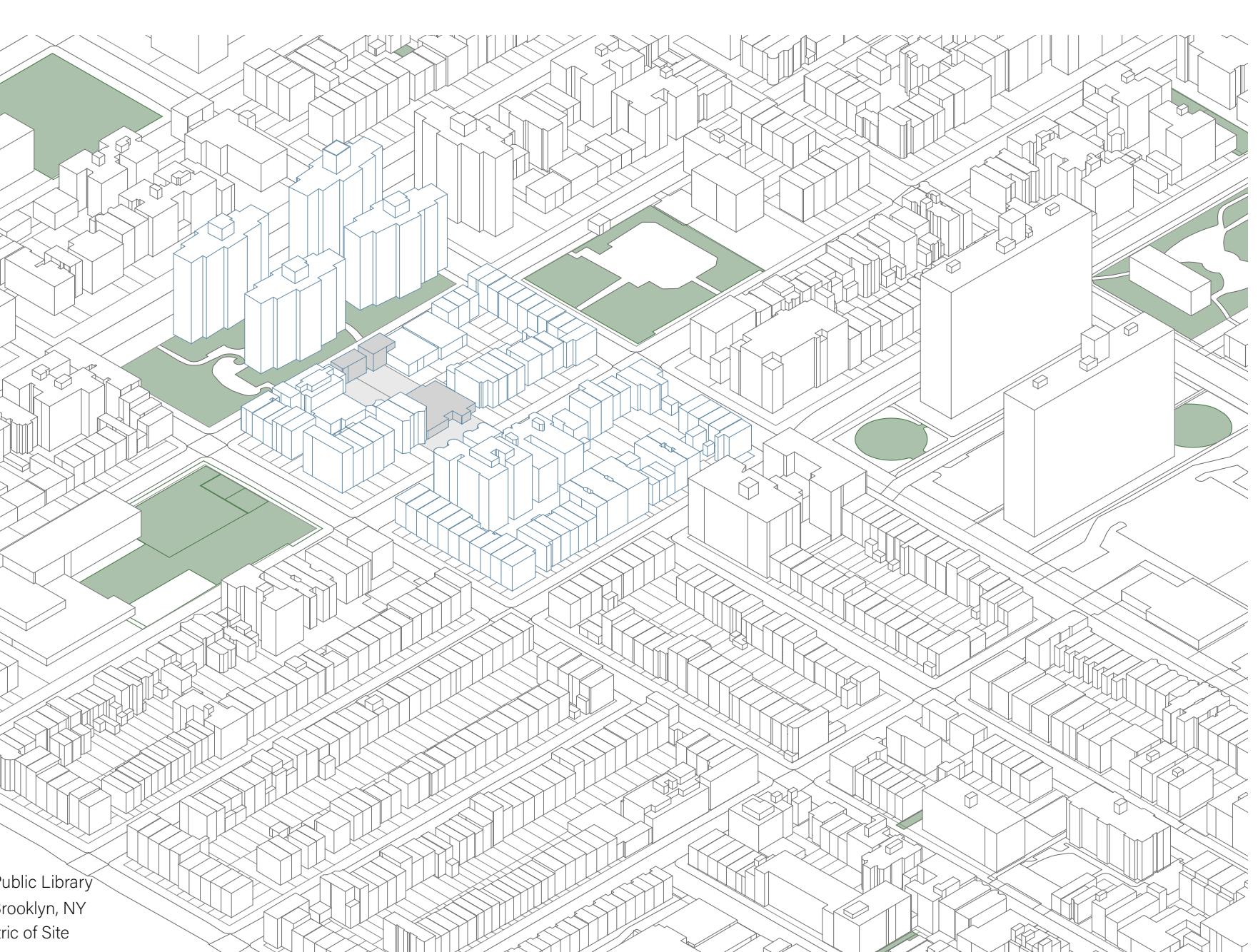


**CATHERINE MELGAR**  
**NEW YORK INSTITUTE OF TECHNOLOGY**  
**DESIGN V FALL 2022**  
**PROFESSOR ELIJAH WILLIAMS**



## Study Models: Program Models

- Circulation
- Shared Spaces
- Children's Center
- Library
- Outdoor Area



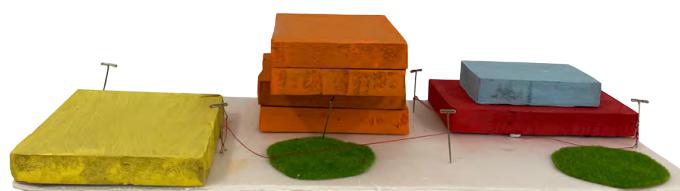
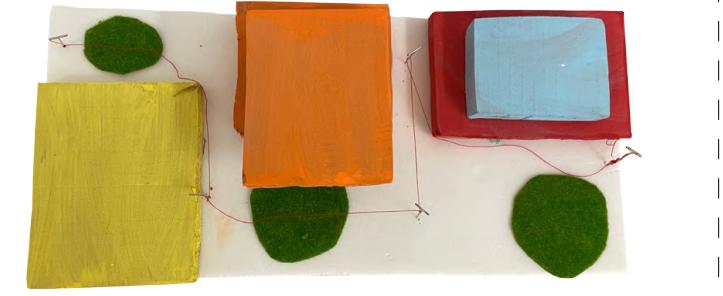
Program / Site Response / Circulation



Program

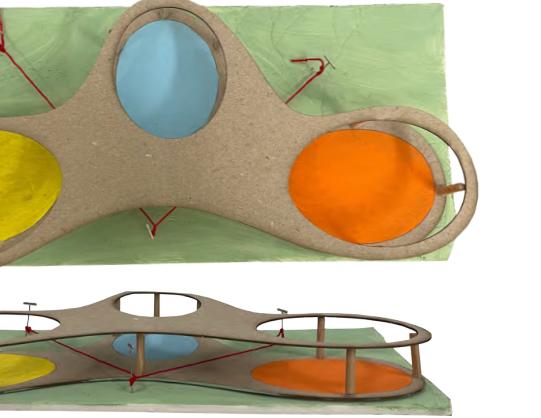


Light / Open-Closed



## Study Models: Flow of Connections/ Center Element

- Circulation
- Shared Spaces
- Children's Center
- Library
- Outdoor Area



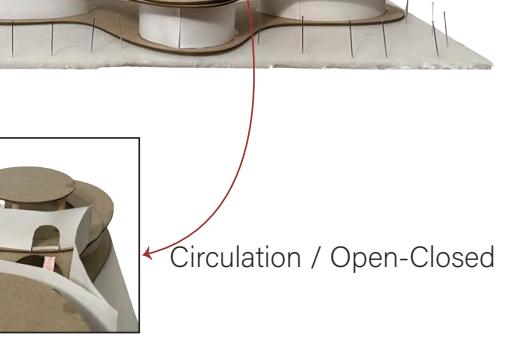
Program / Site Response / Circulation / Open-Closed



Final Study Model A.



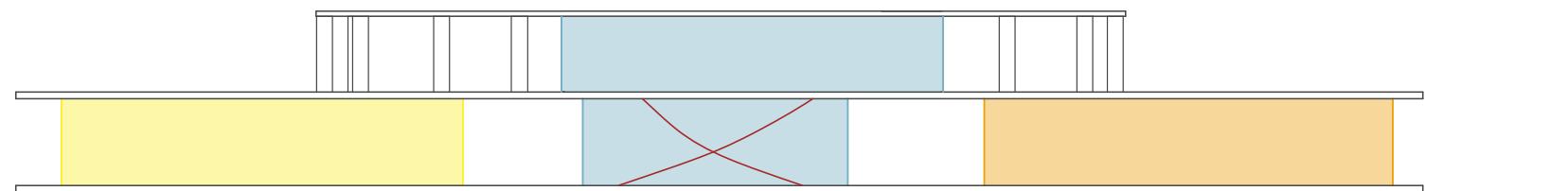
Final Study Model B.



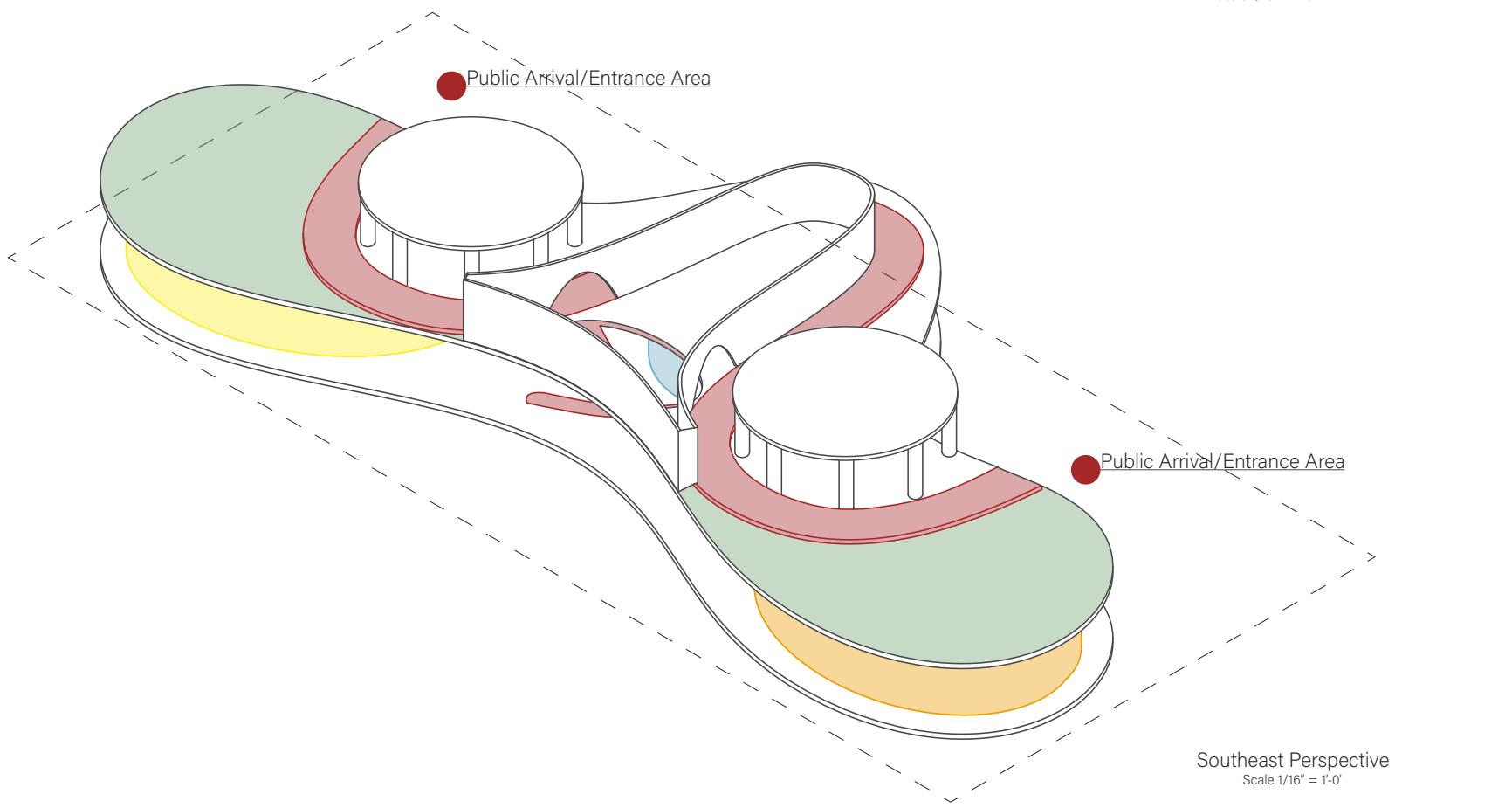
Circulation / Open-Closed

Final Study Model B.

Circulation  
Shared Spaces  
Children's Center  
Library  
Outdoor Area

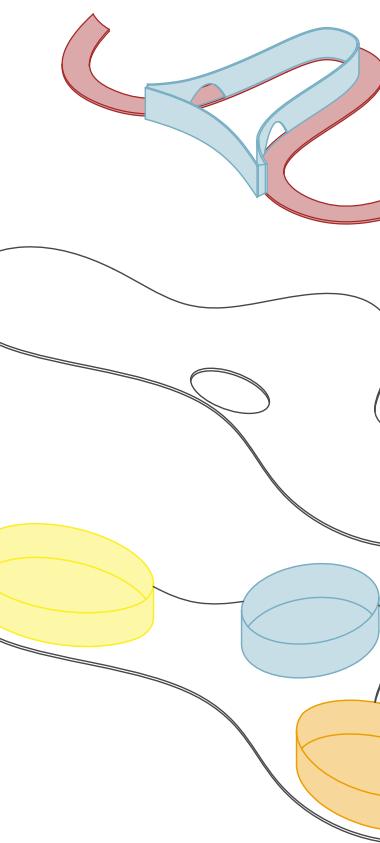
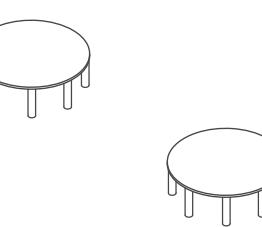


South Elevation  
Scale 1/16" = 1'-0"



Southeast Perspective  
Scale 1/16" = 1'-0"

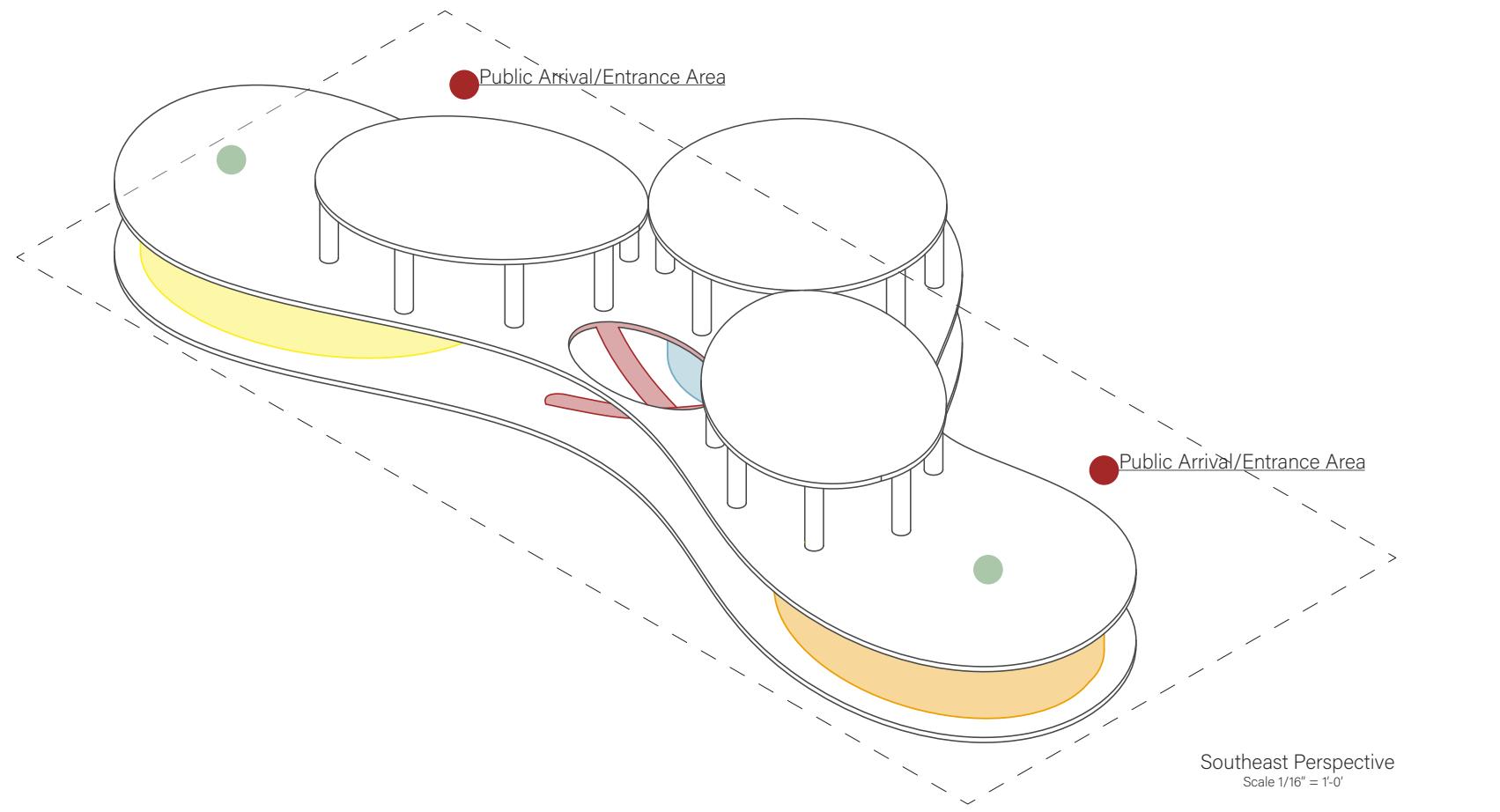
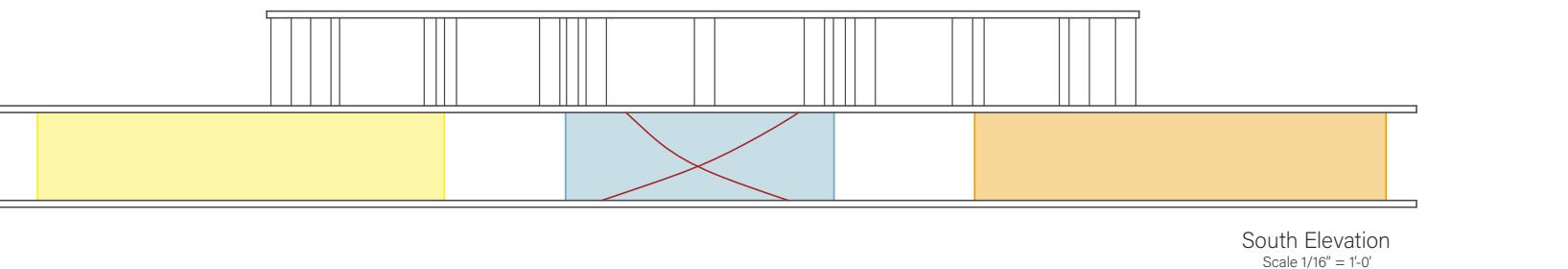
Circulation  
Shared Spaces  
Children's Center  
Library



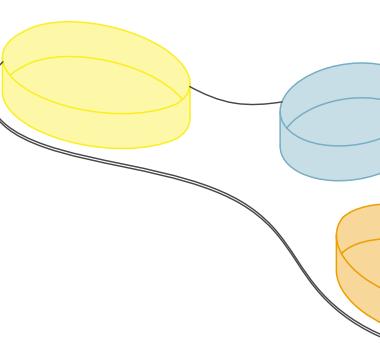
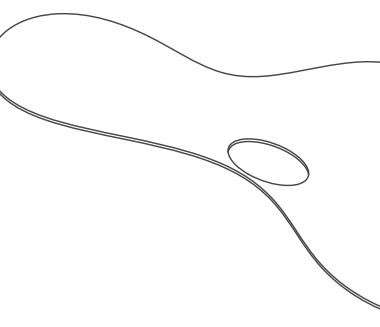
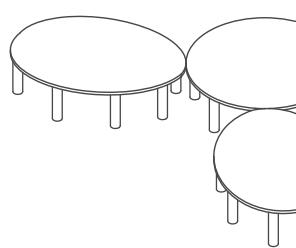
Southeast Exploded Perspective  
Scale 1/16" = 1'-0"

Final Study Model A.

Circulation  
Shared Spaces  
Children's Center  
Library  
Outdoor Area



Circulation  
Shared Spaces  
Children's Center  
Library



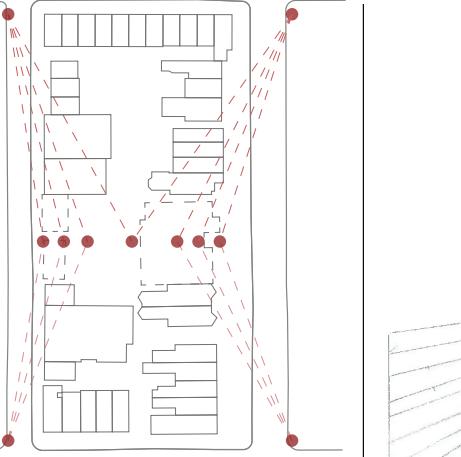
Southeast Exploded Perspective  
Scale 1/16" = 1'-0"



### An Opportunity for a Center Element A Hidden Core

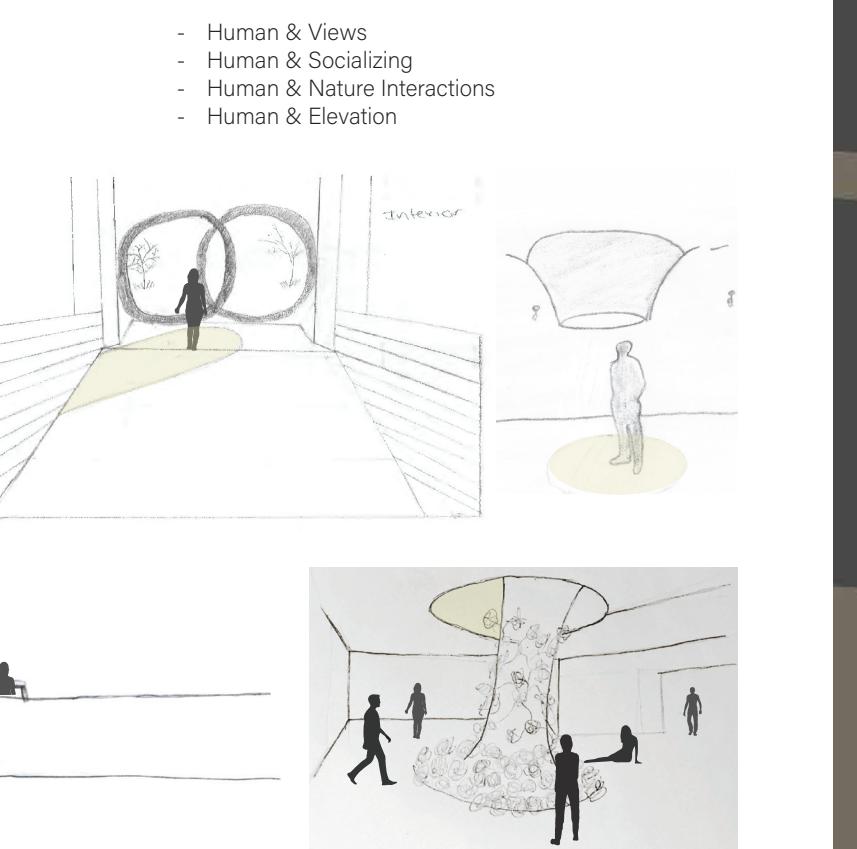
The diamond shaped facade of the proposed library is not only appealing to the eye, but structural. It creates unique thresholds, and views for the street with a hidden core. The building curves in the direction of the center entrance of the atrium created with a diamond shaped structure. This brings the users to the center of the atrium that directly connects to two areas, the main library and the children center. The diamond shaped atrium brings light into both areas and becomes the main circulation to each program with moments of thresholds and views. In comparison, the existing Brooklyn Library is a smaller scale program with little areas for no variety of programs and a non inviting feeling to bring children and young adults in.

#### View Points



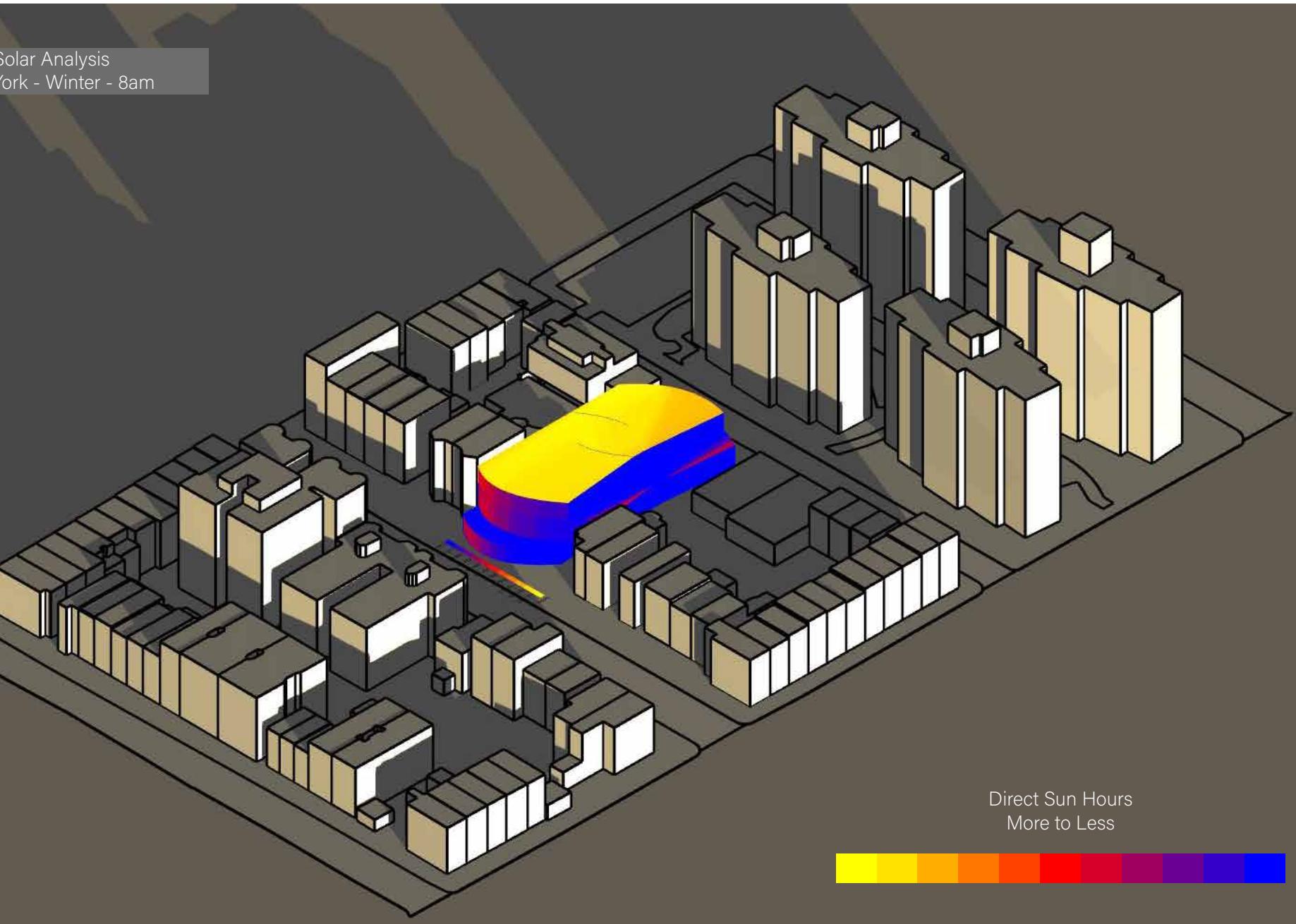
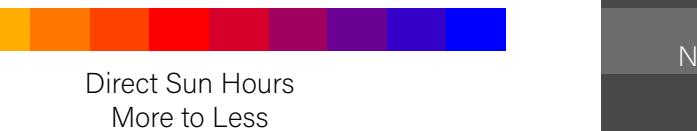
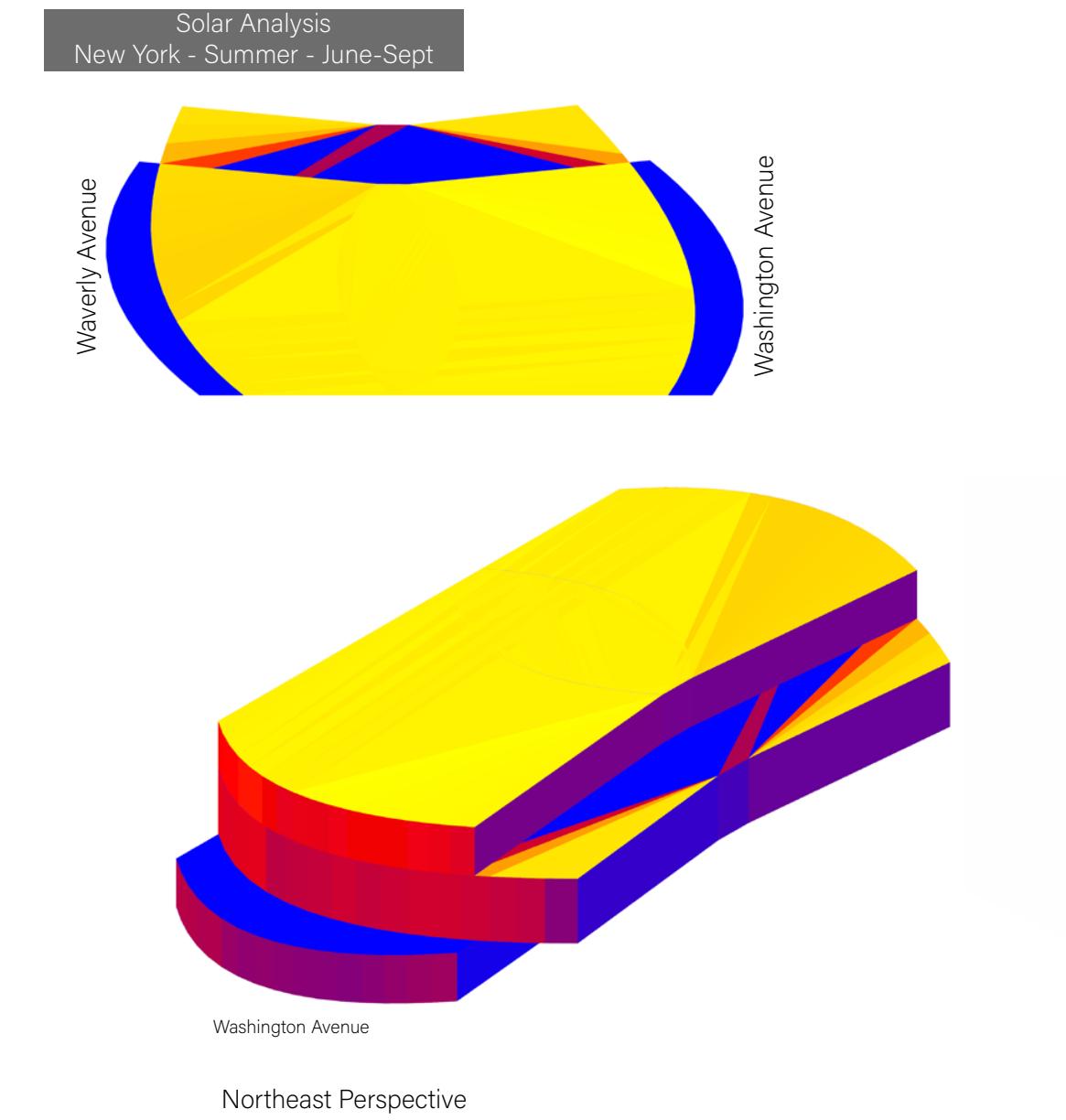
#### Nature and Human Factors

- Human & Views
- Human & Socializing
- Human & Nature Interactions
- Human & Elevation

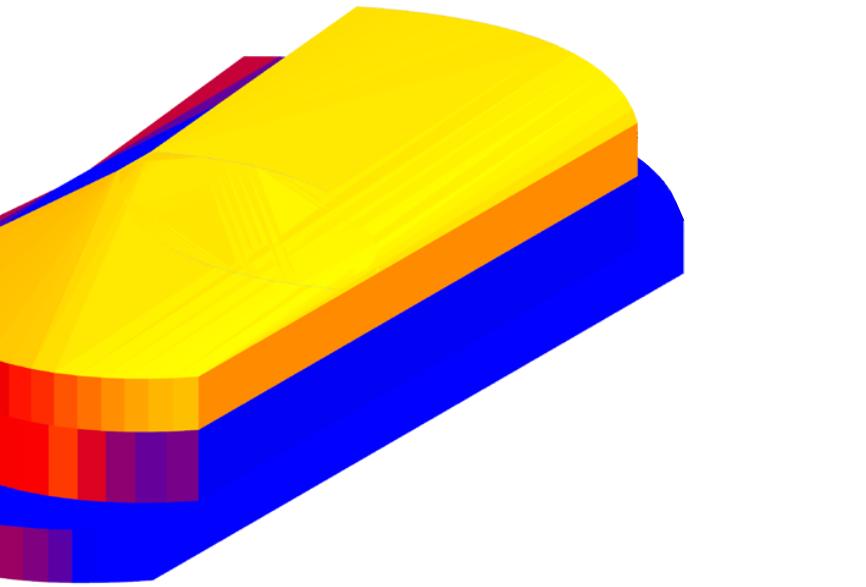
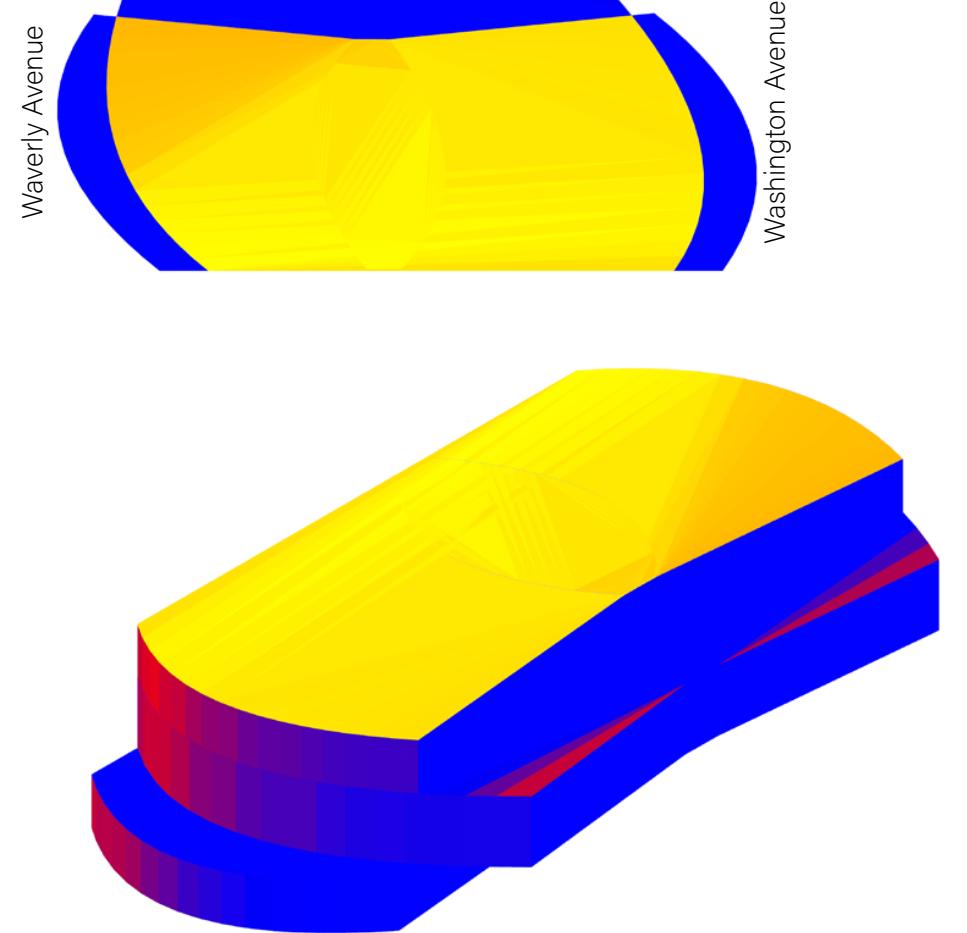


- The site is located in the center of Washington Ave & Waverly Ave, giving it the opportunity to be hidden
- There is a strong connection to nature with the surrounded greenery and views of the environment

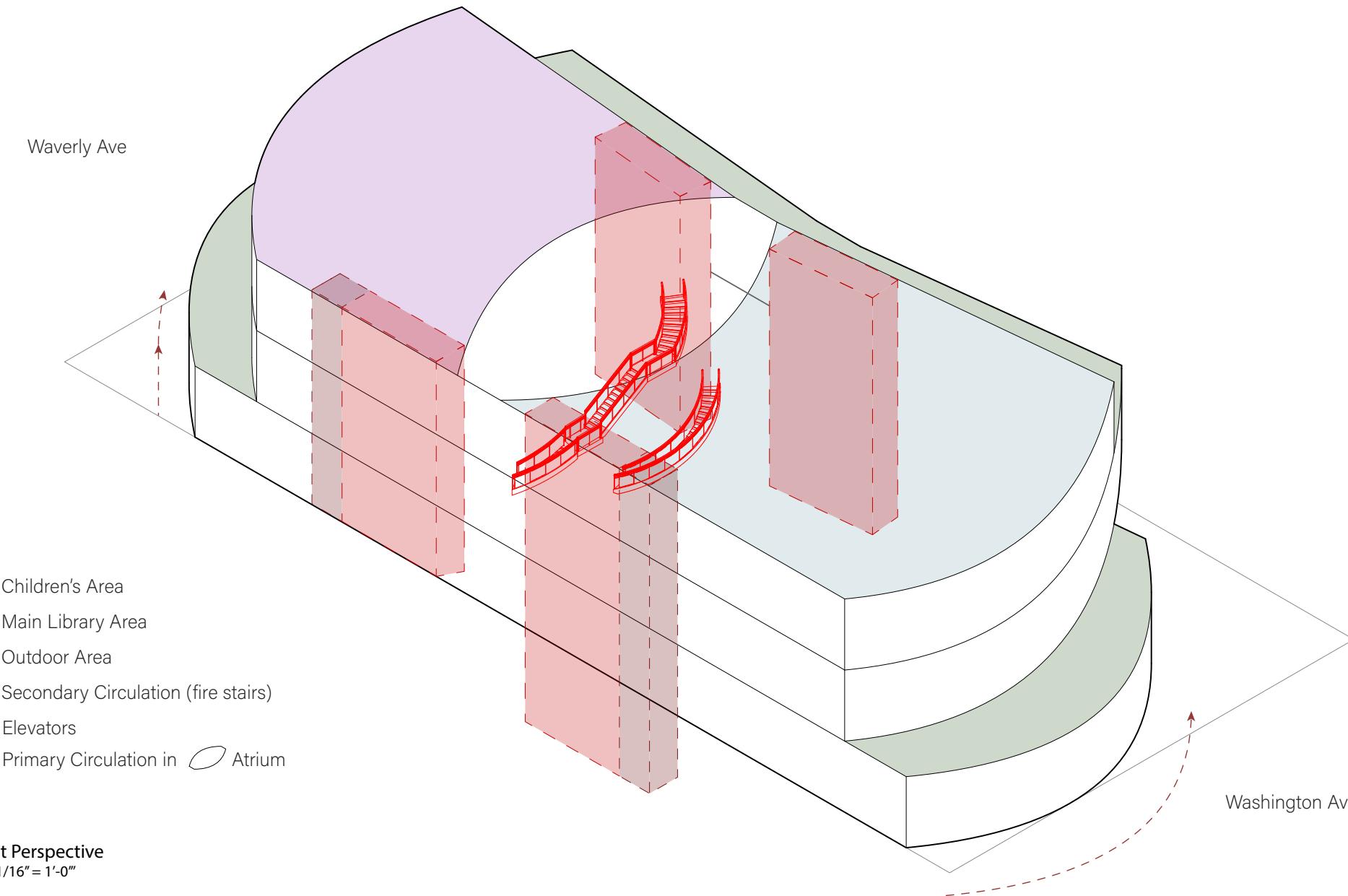


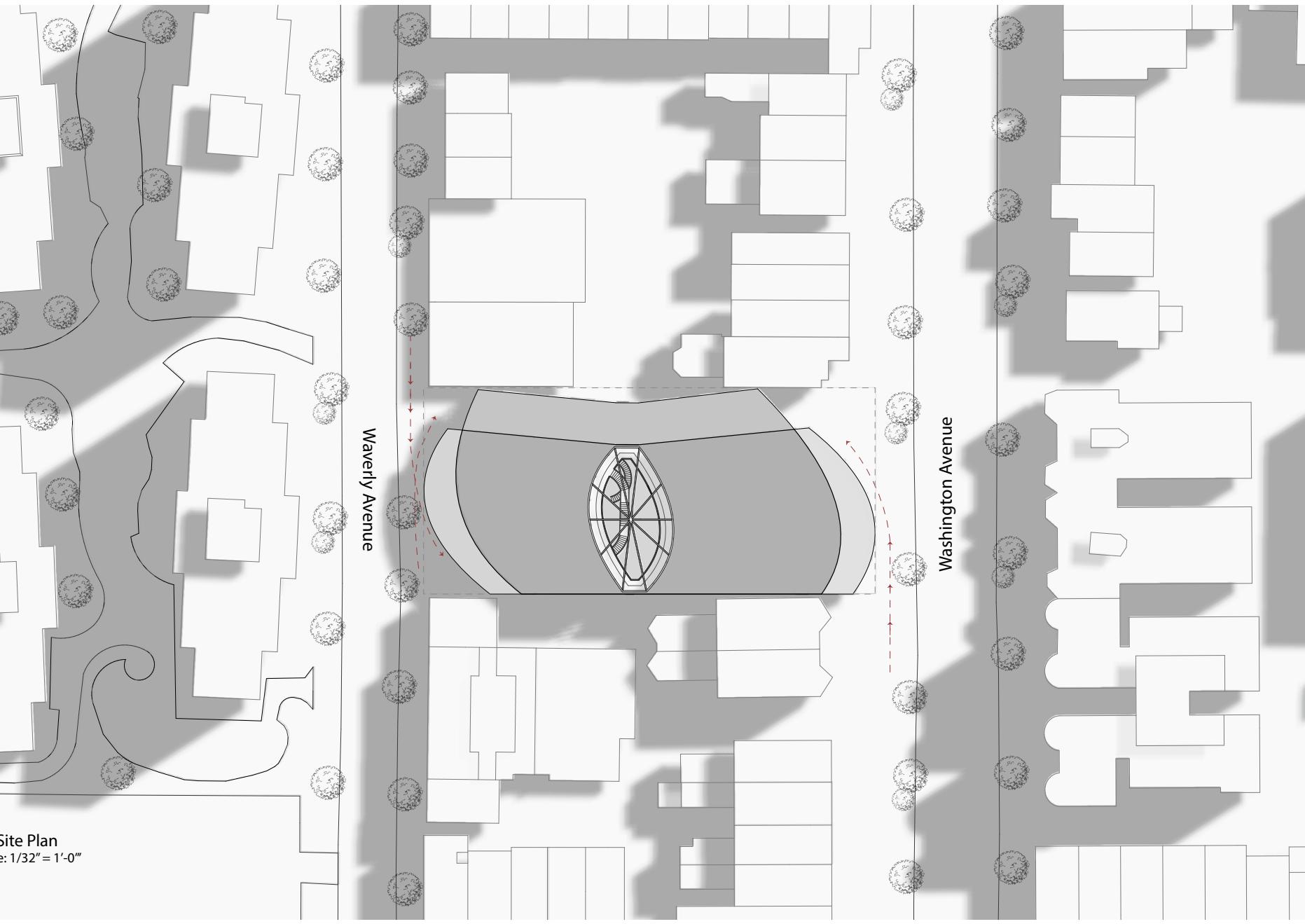
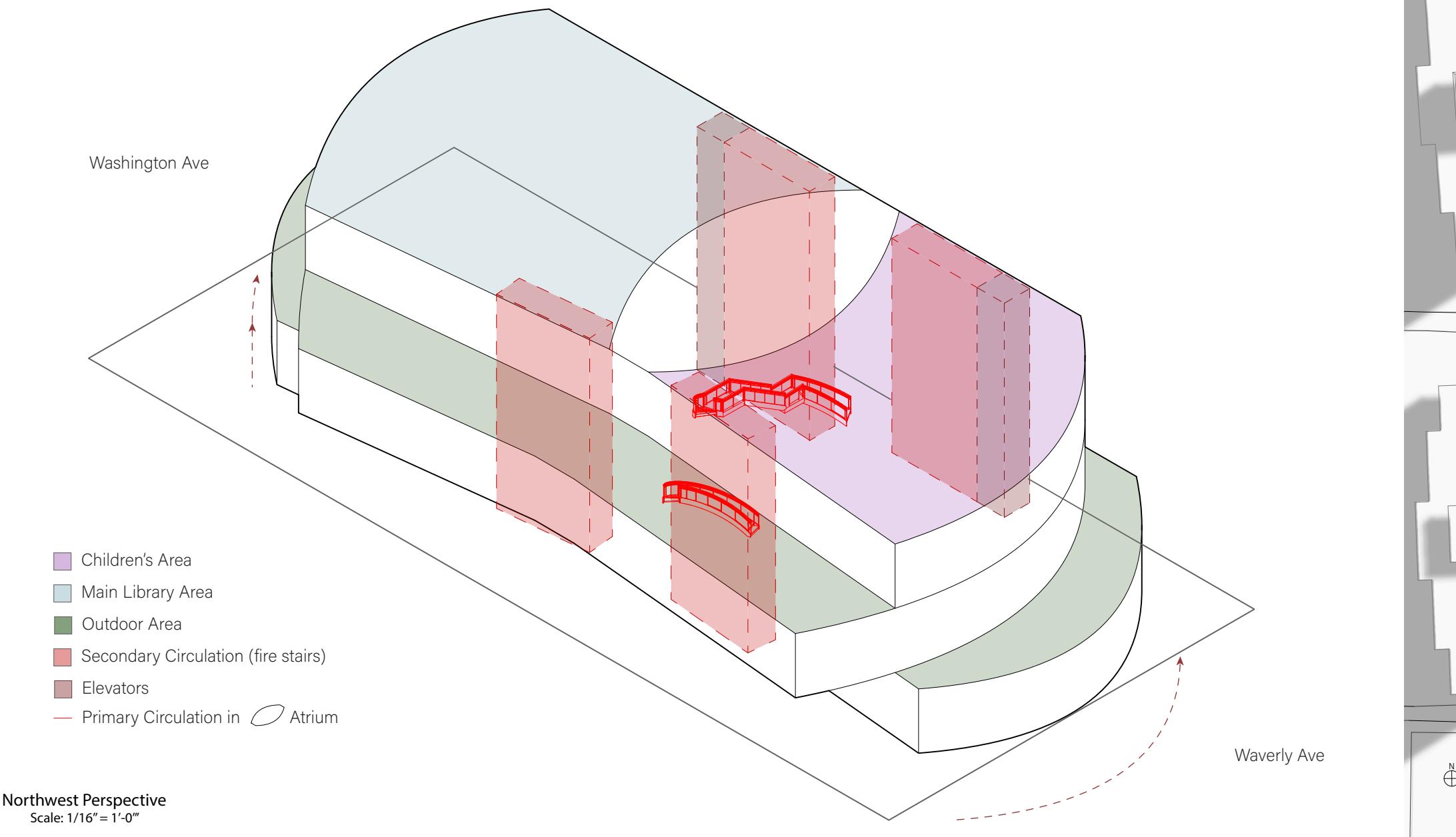


Solar Analysis  
New York - Winter - Oct-Feb



**Southeast Perspective**  
Scale: 1/16" = 1'-0"

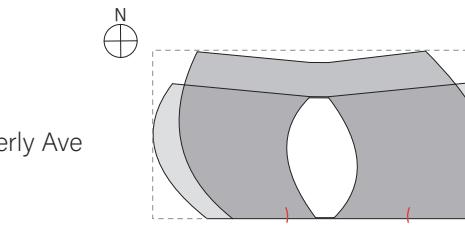
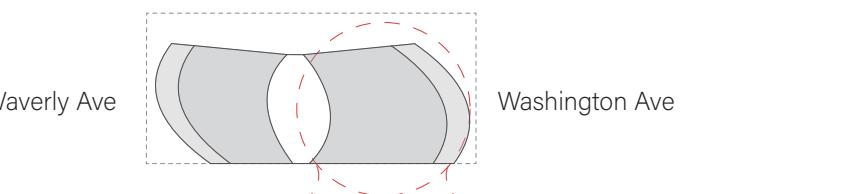
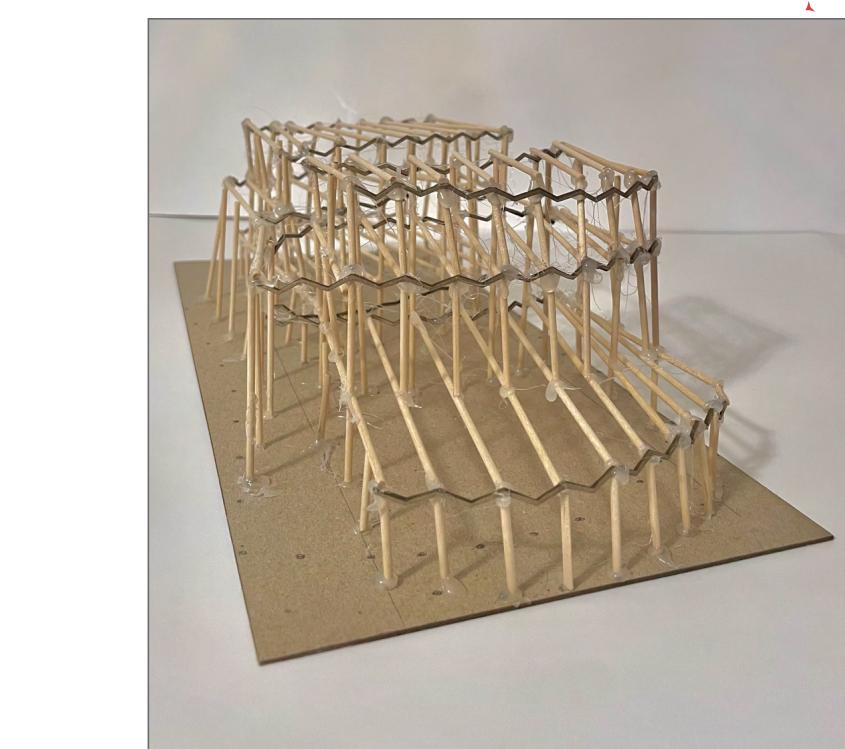


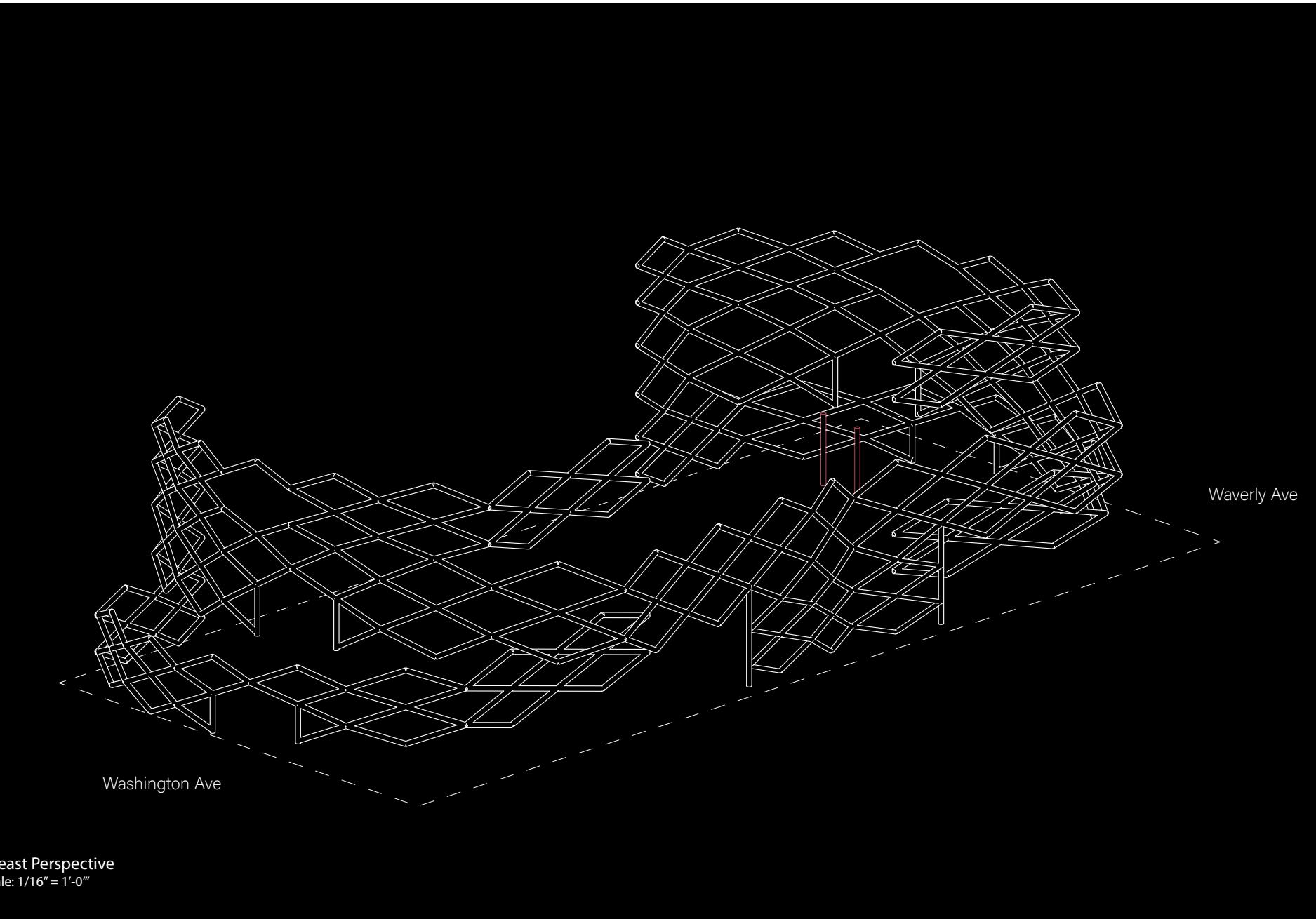
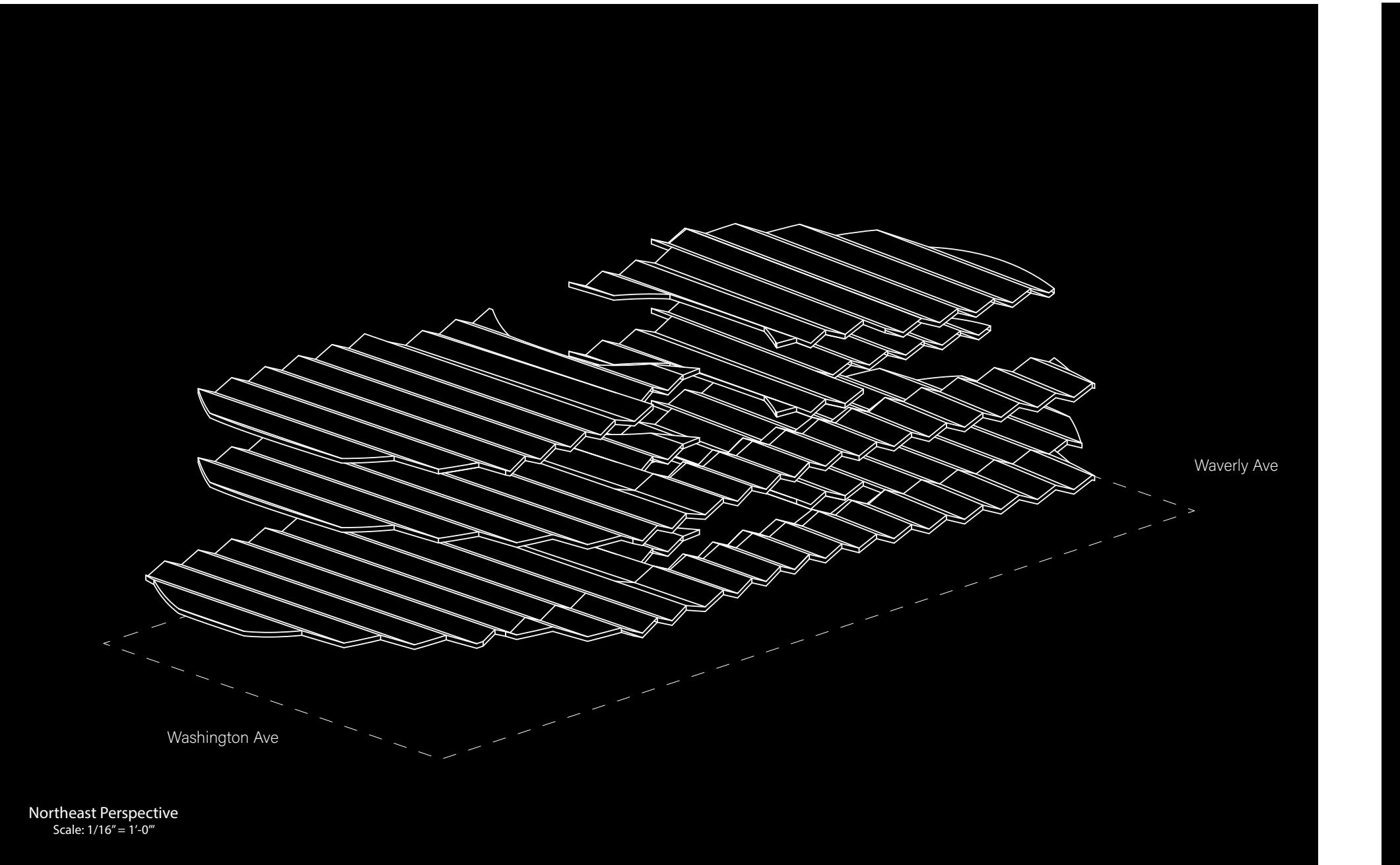


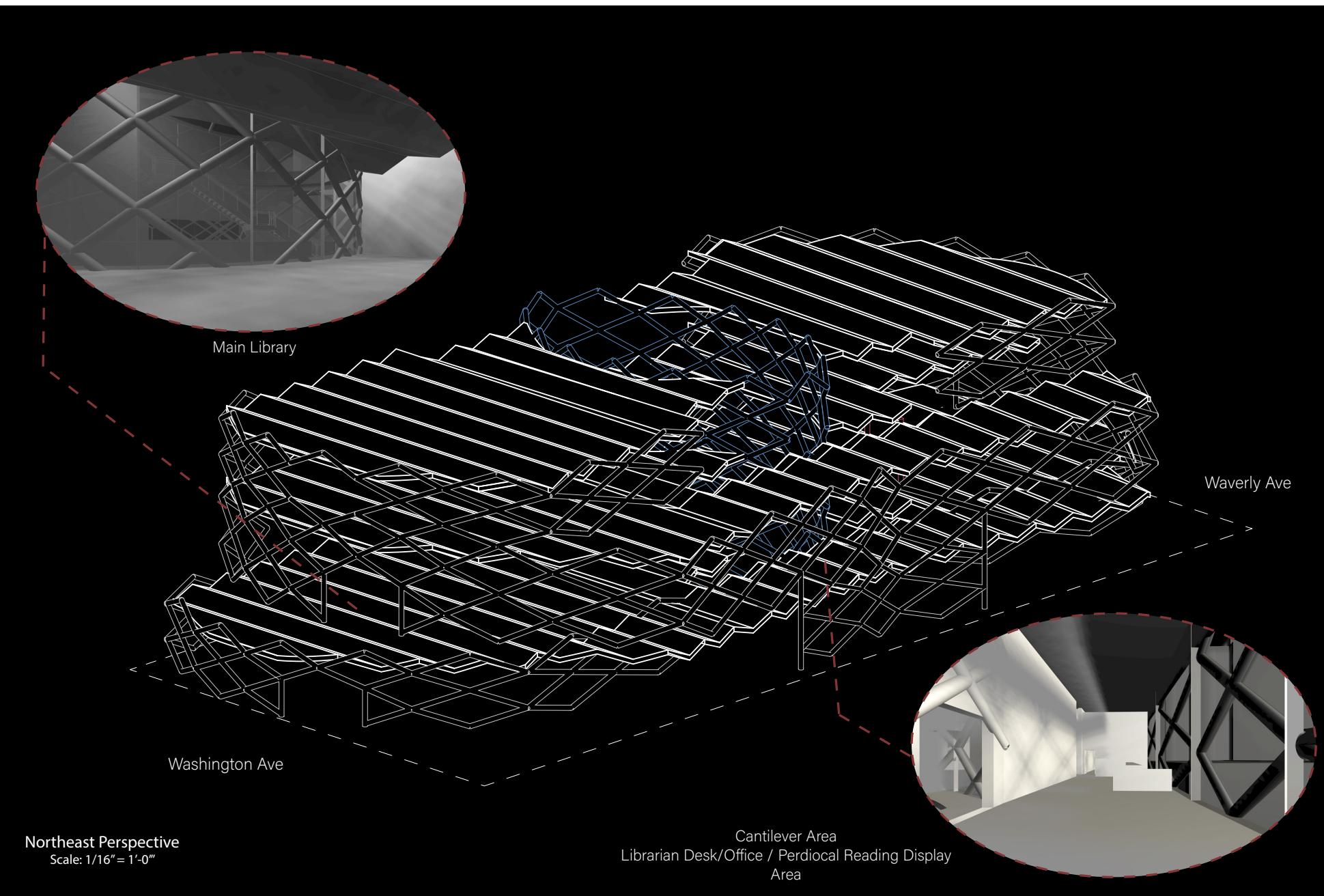
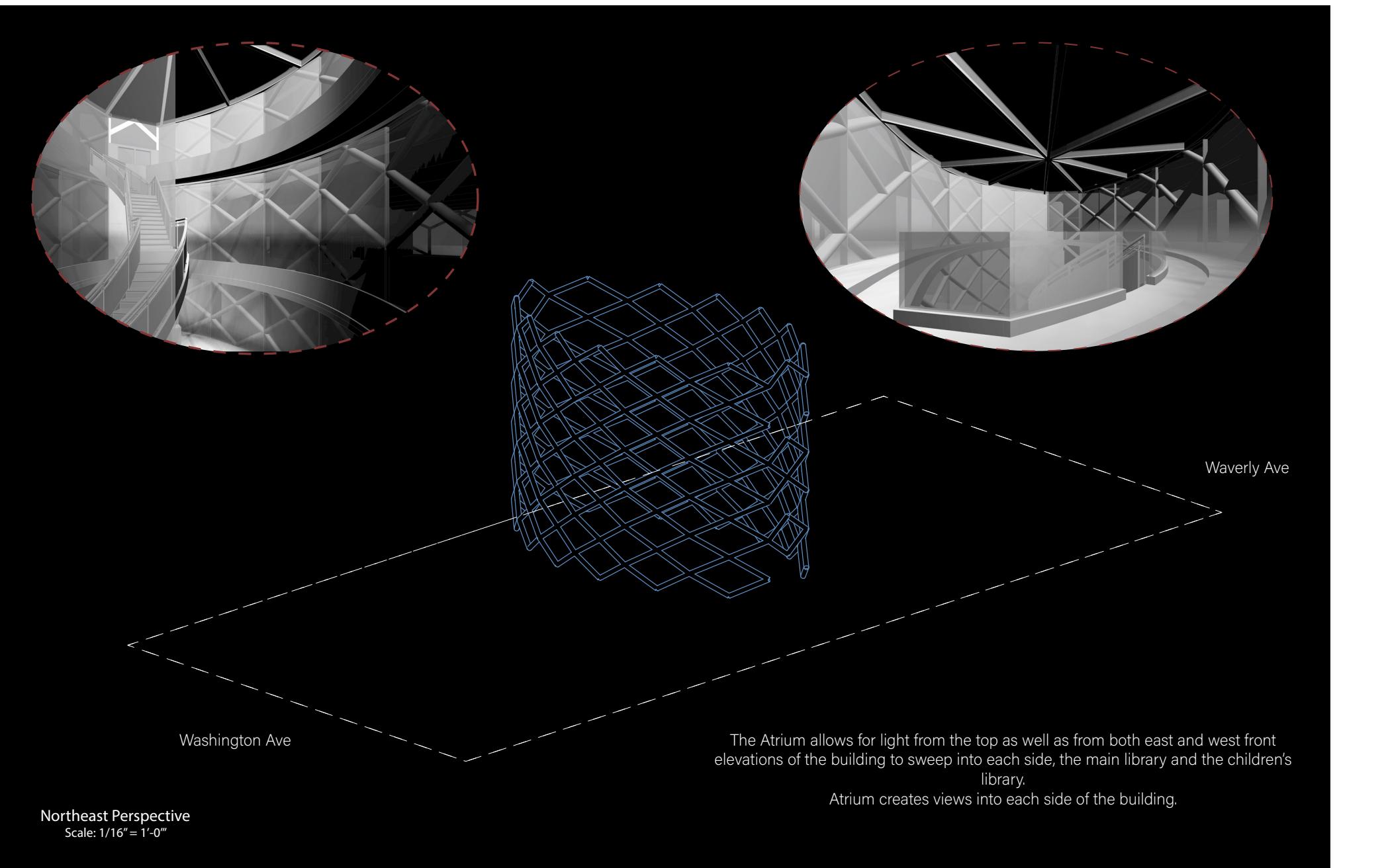
1/8th Early Structure Study Model

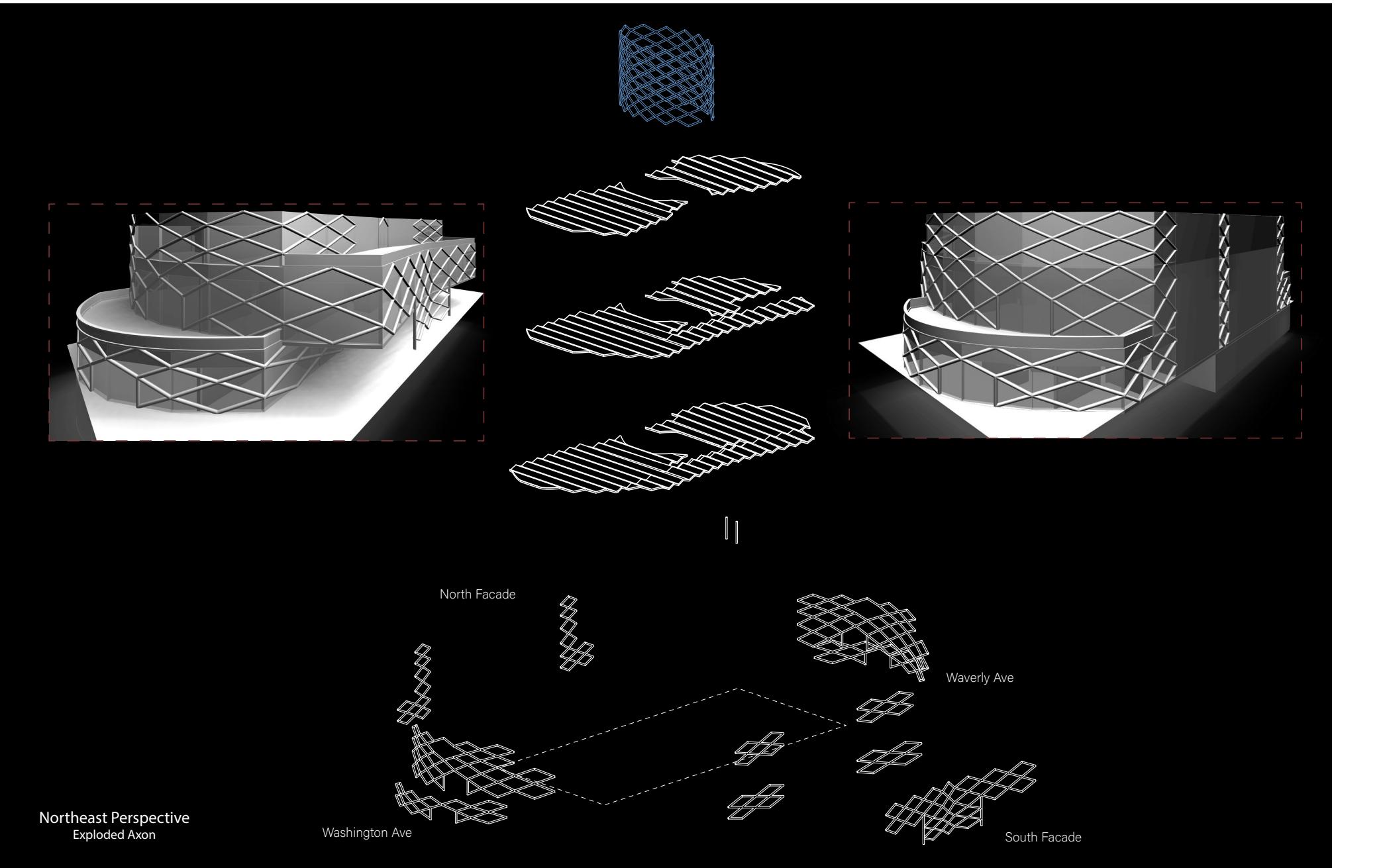


1/16th Early Structure Study Model

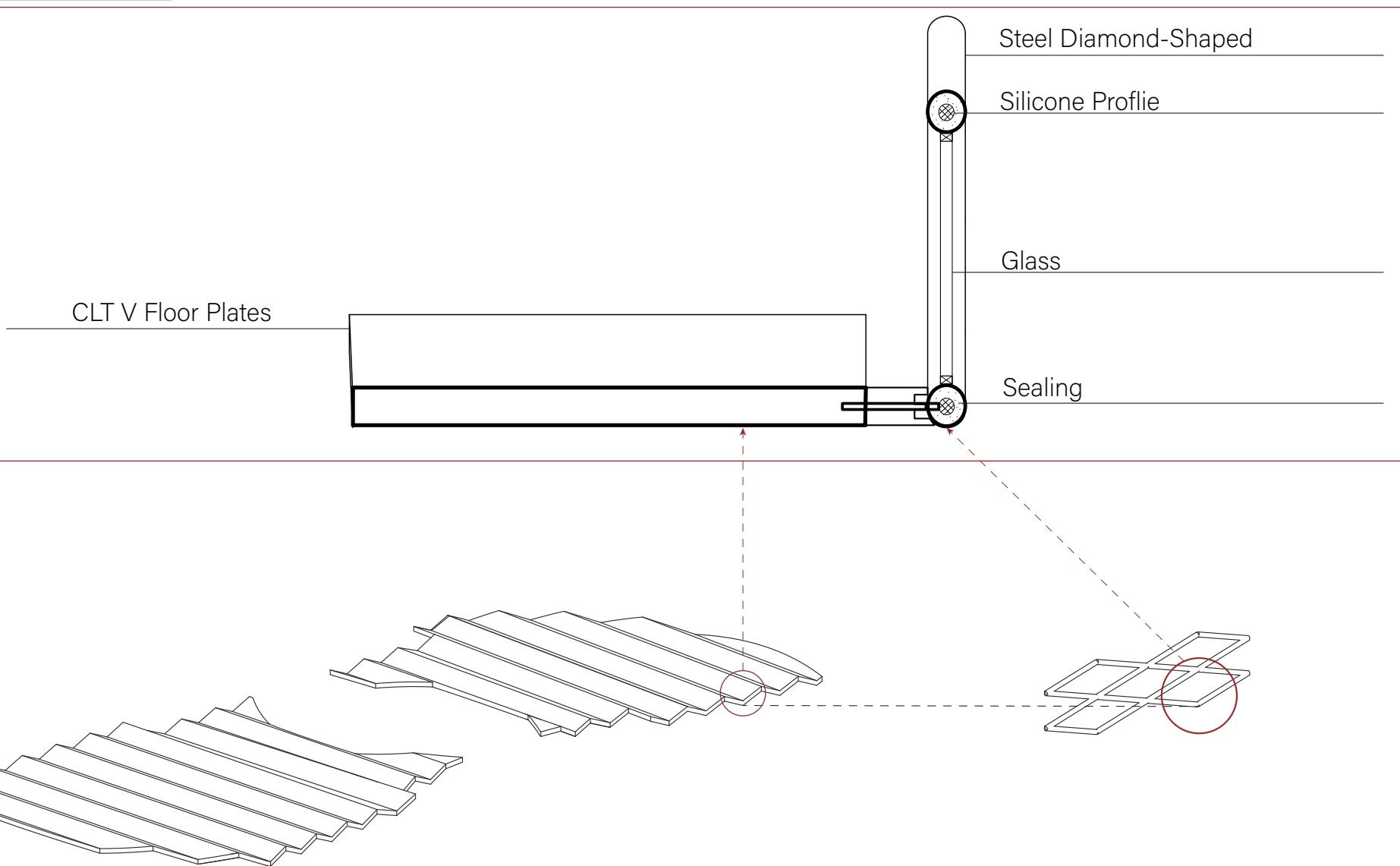




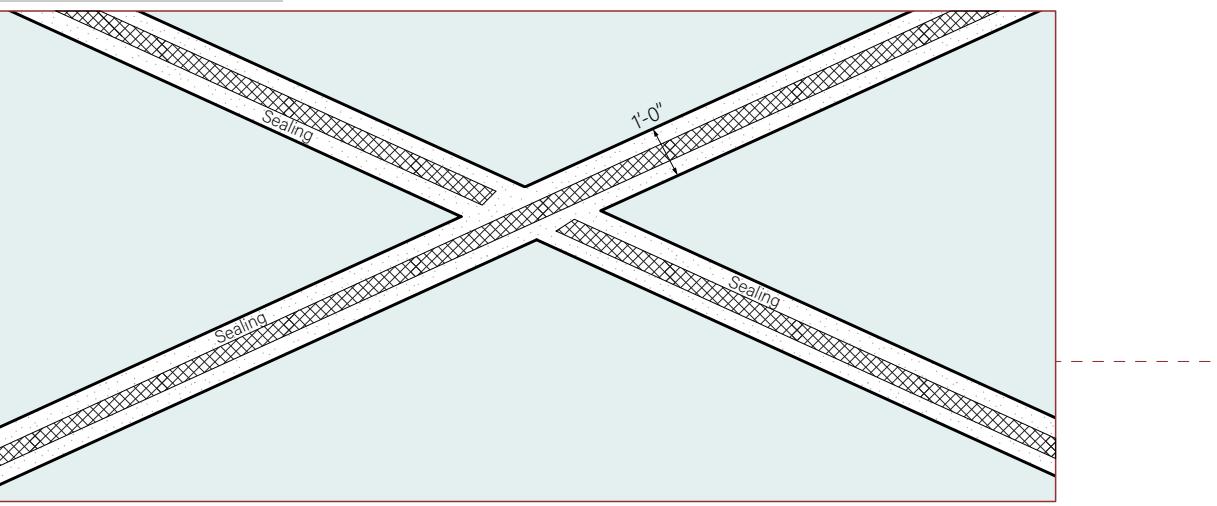




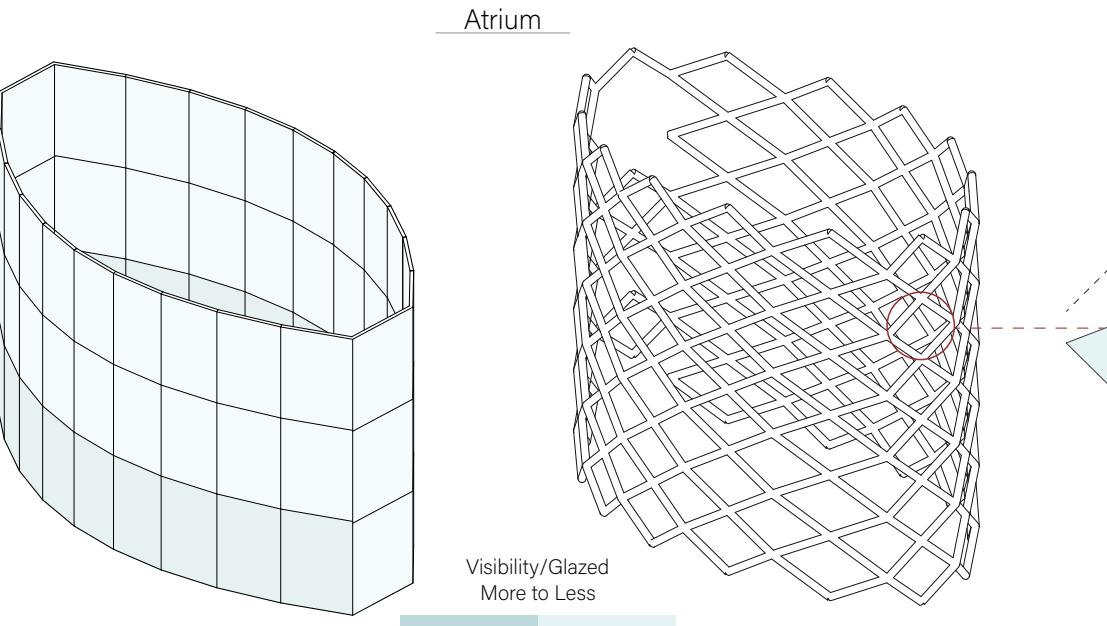
Façade as Structure



### Façade as Structure



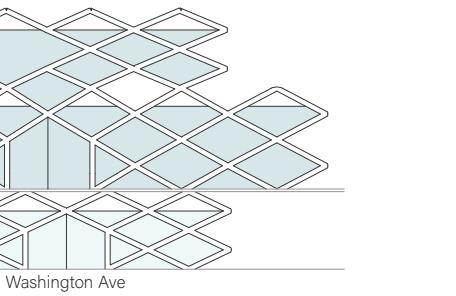
Silicone Joint for Diagonal Tube Diamond-Shaped Skin



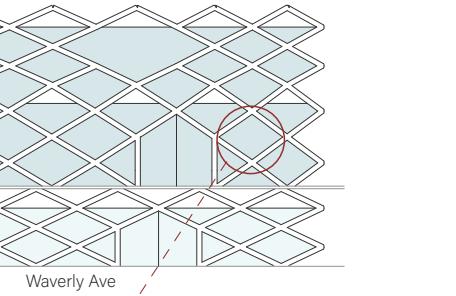
Atrium

### Silicone Sealing Profile

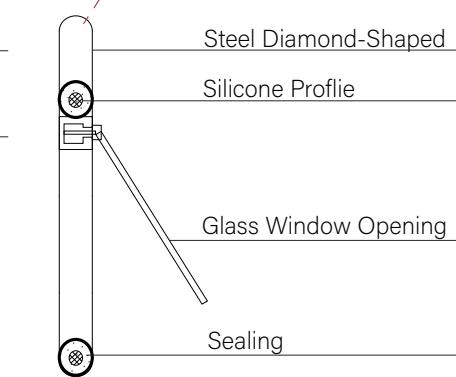
Sealing profiles are made from flexible rubber or PVC to fit over panels of varies thickness. When compressed, SP seals against moisture, dust, noise and vibration.



Washington Ave



Waverly Ave



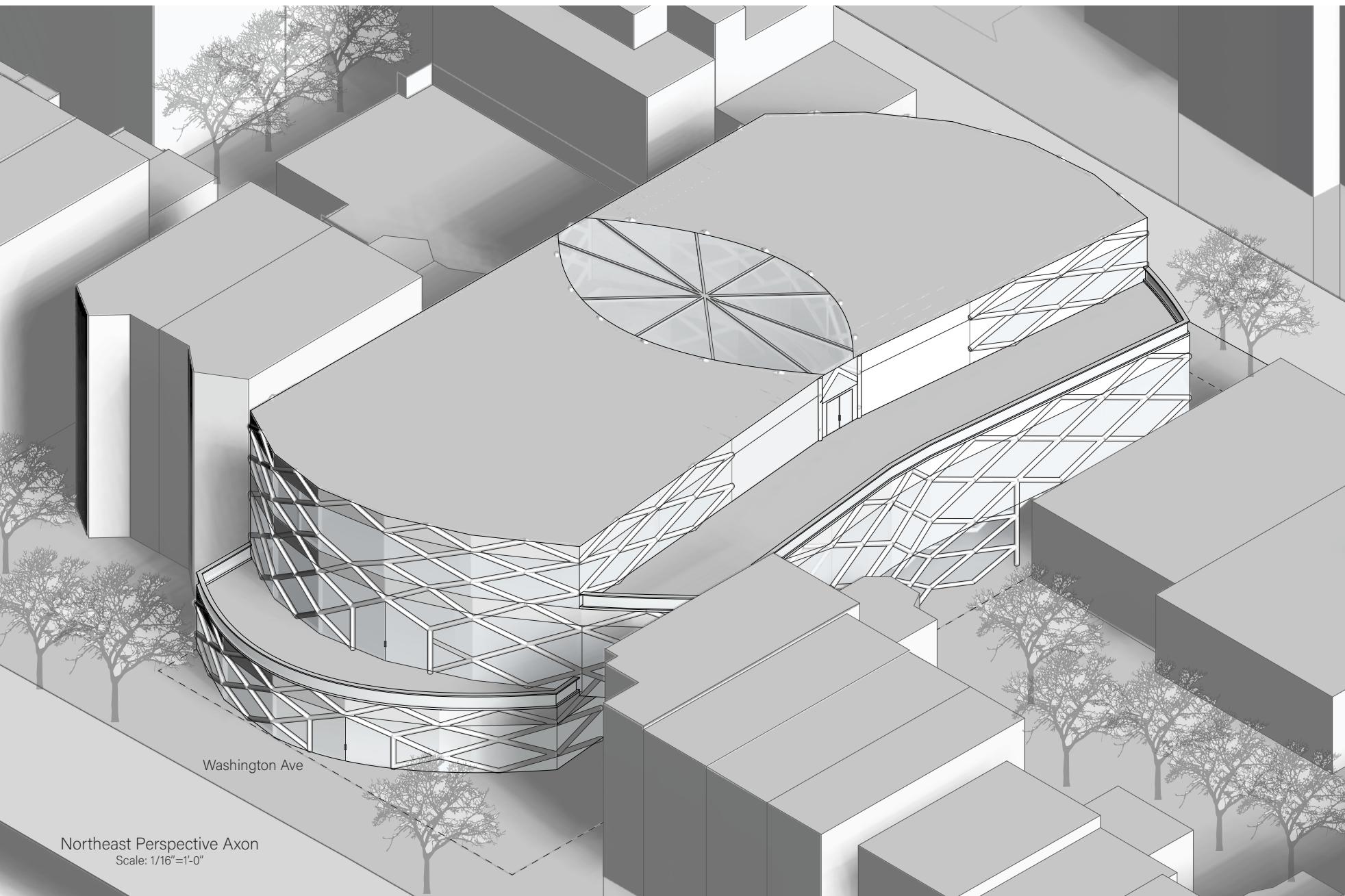
Steel

Glass

Steel Diamond-Shaped  
Silicone Profile

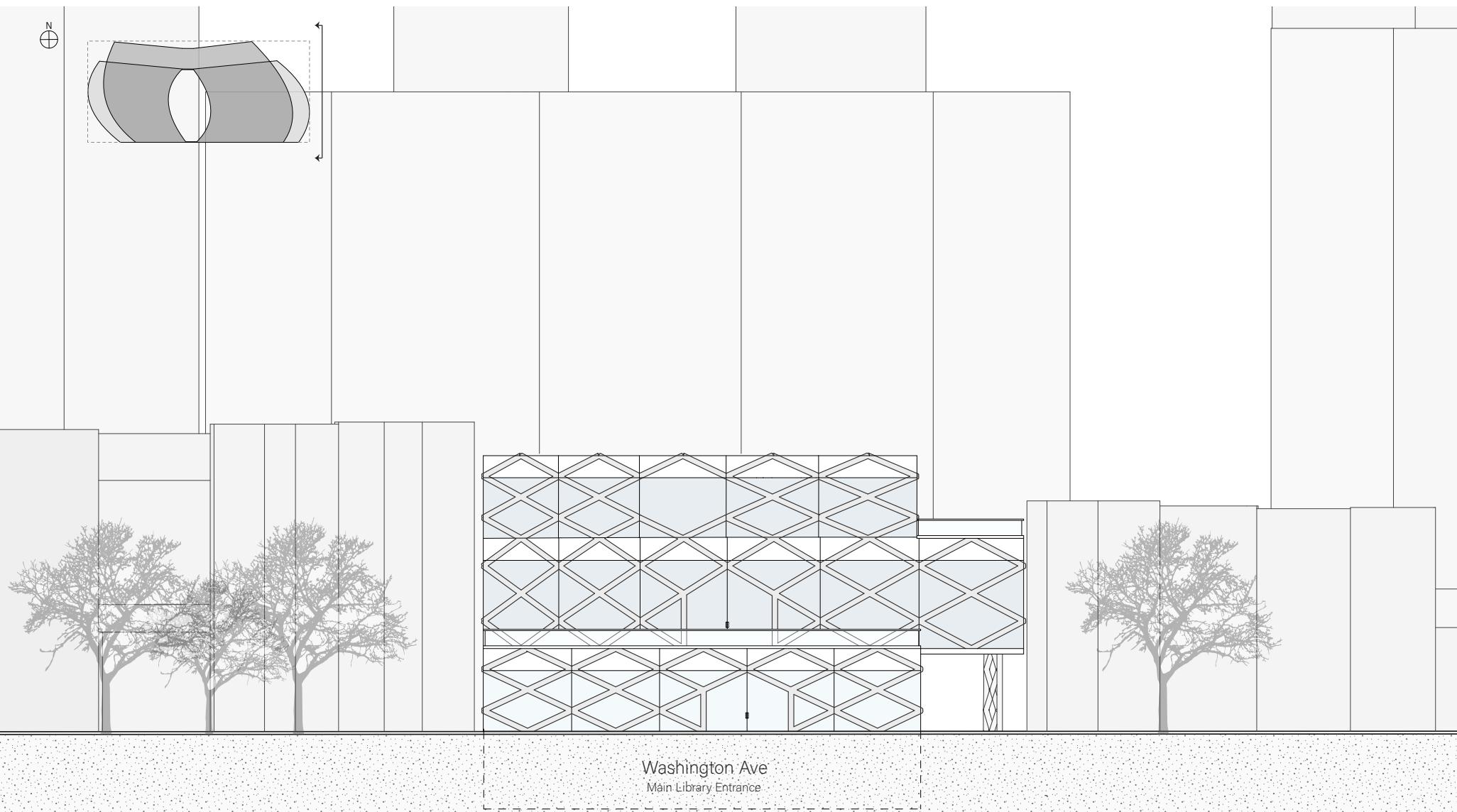
Glass Window Opening

Sealing

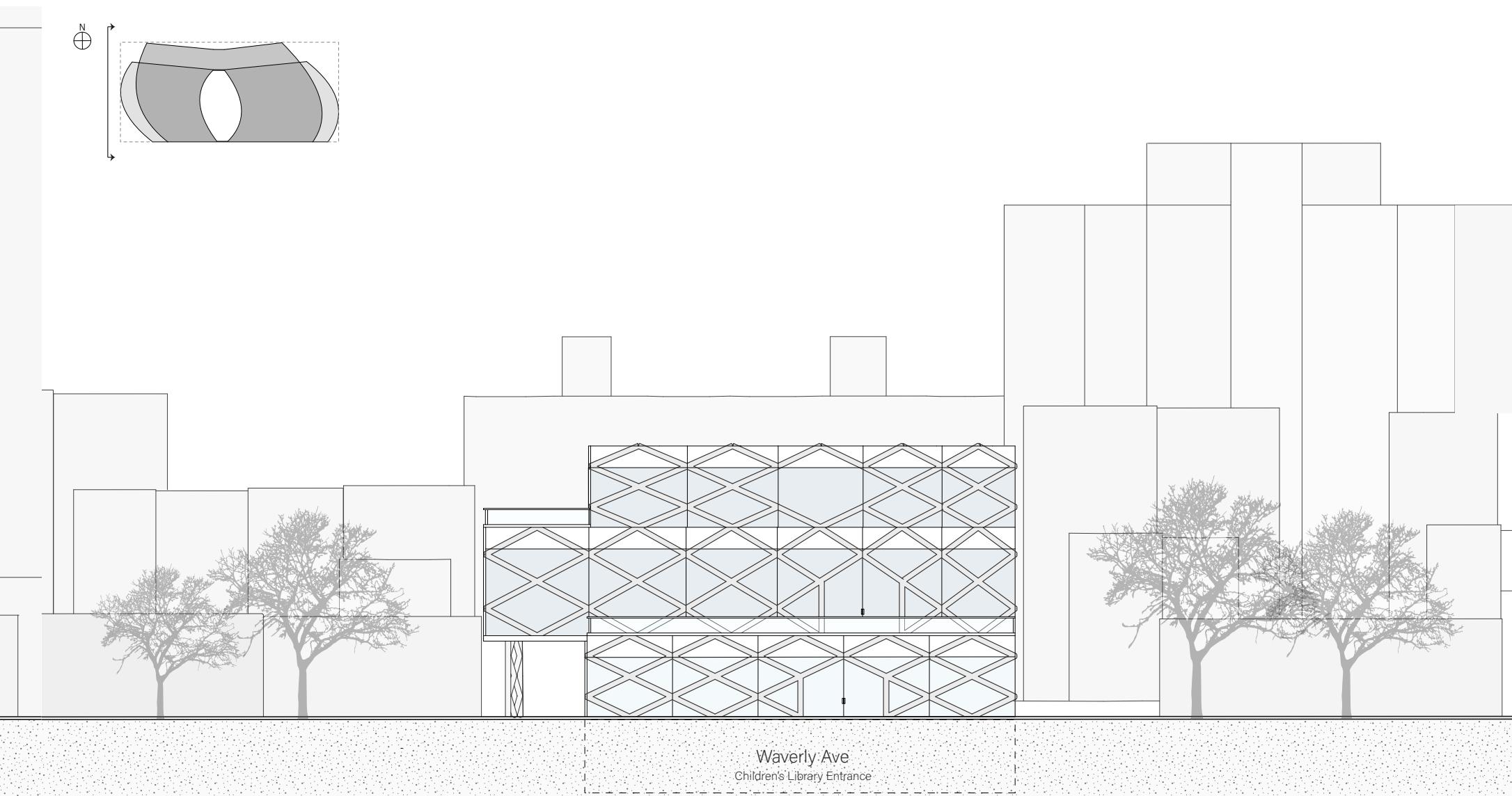


Northeast Perspective Axonometric

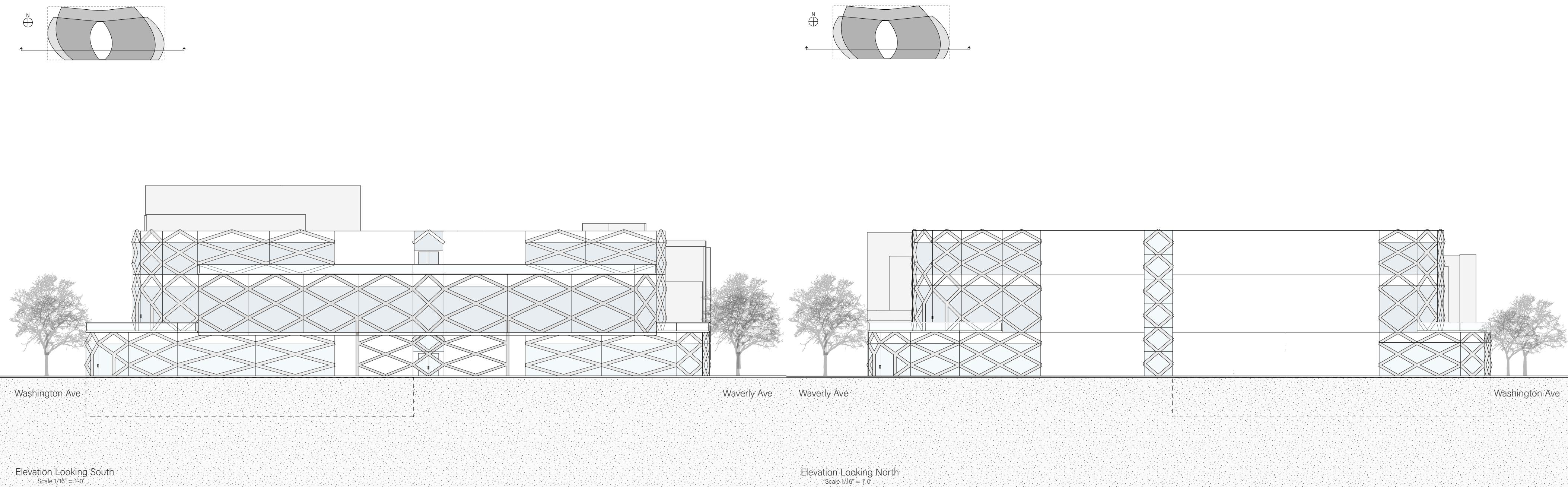
Scale: 1/16"=1'-0"



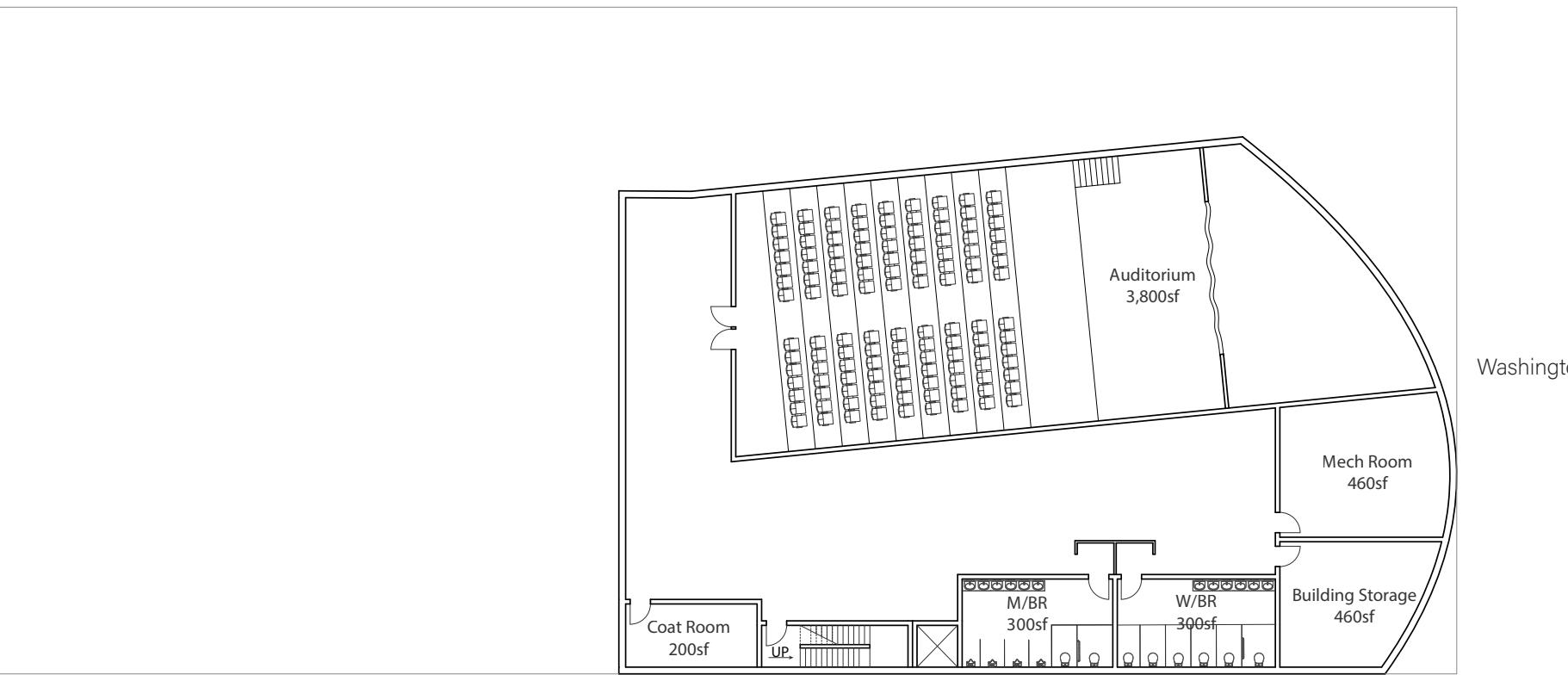
Elevation Looking West  
Scale 1/16" = 1'-0"



Elevation Looking East  
Scale 1/16" = 1'-0"

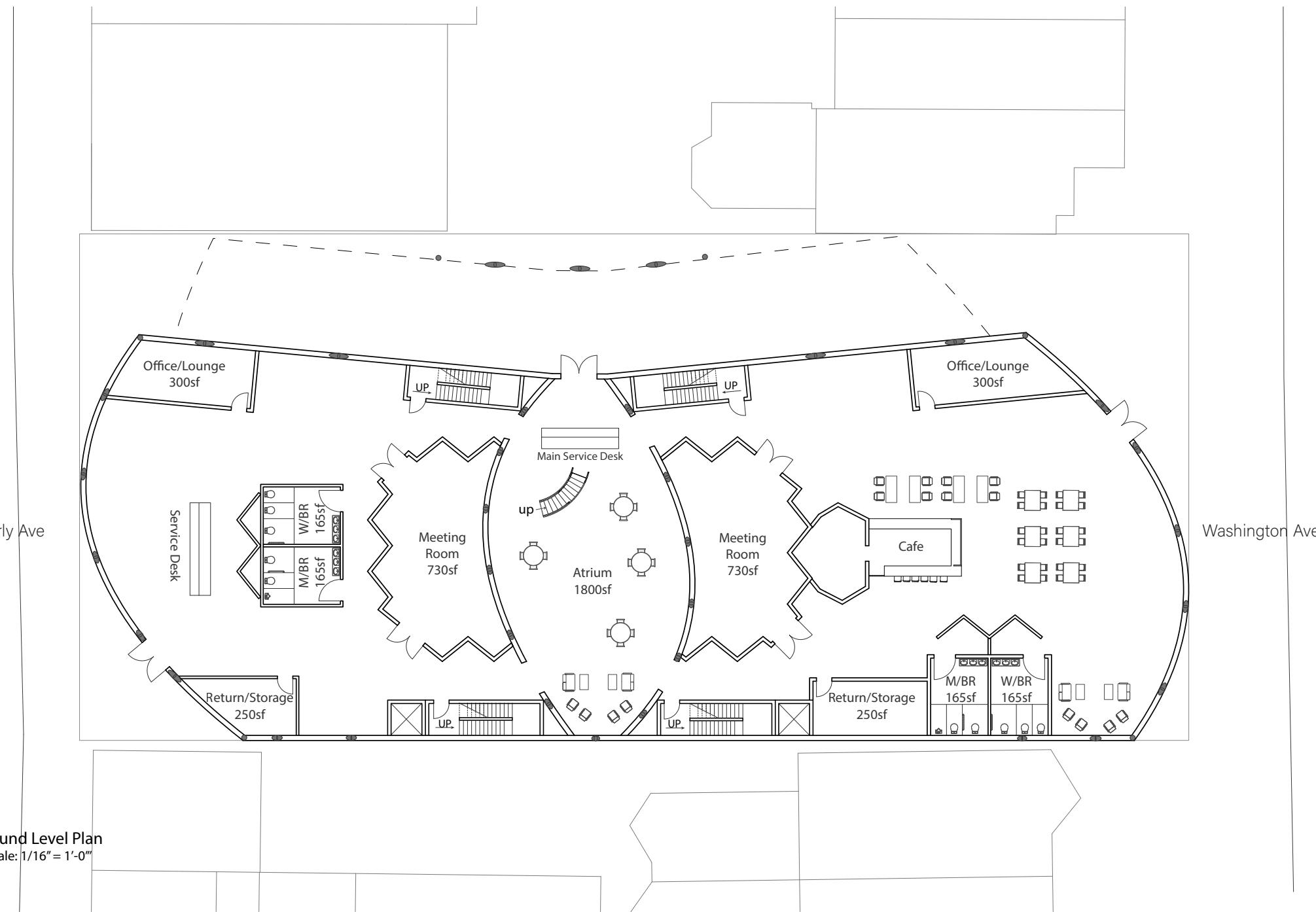


Waverly Ave

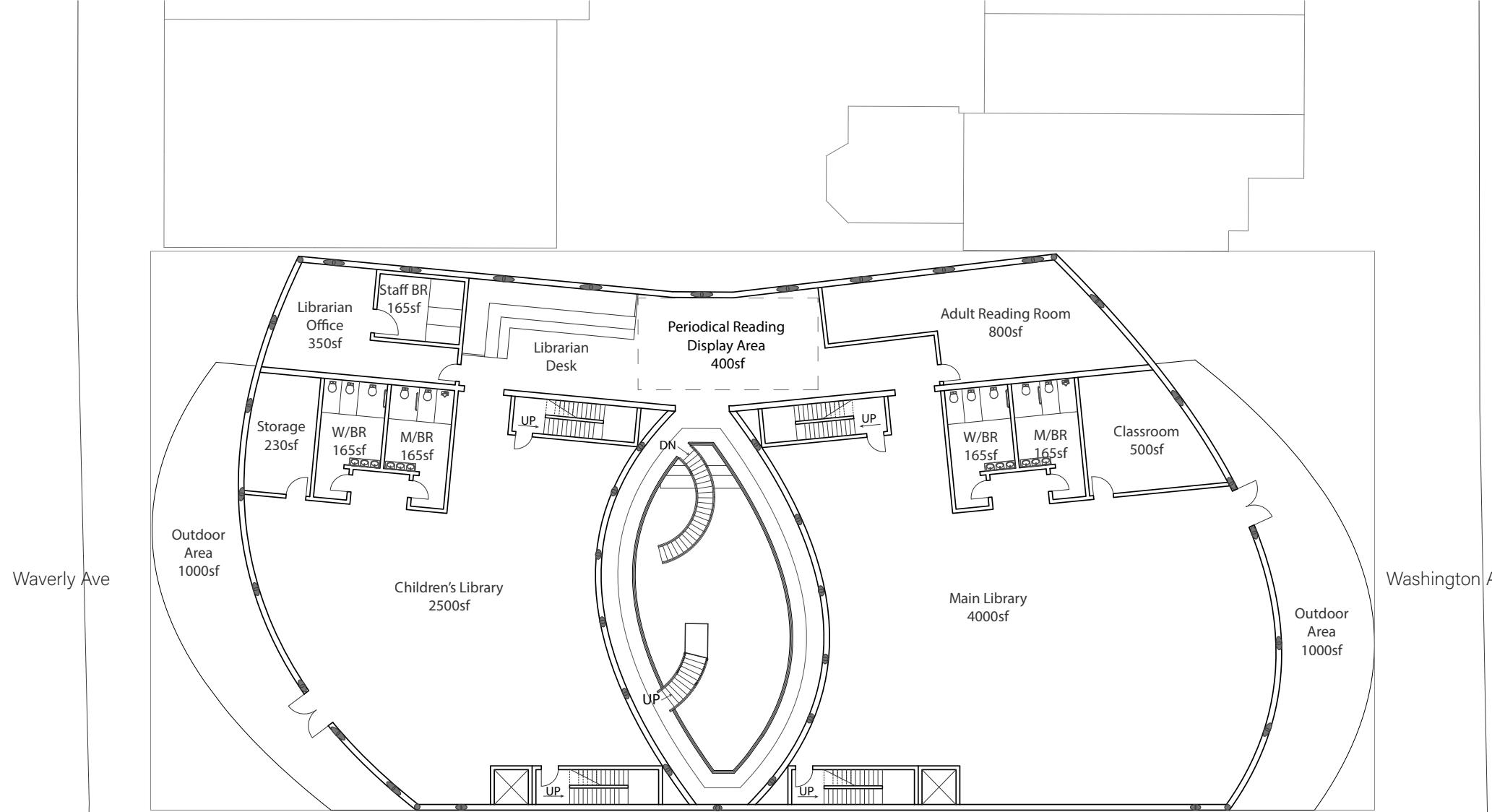


Basement Level Plan  
Scale: 1/16" = 1'-0"

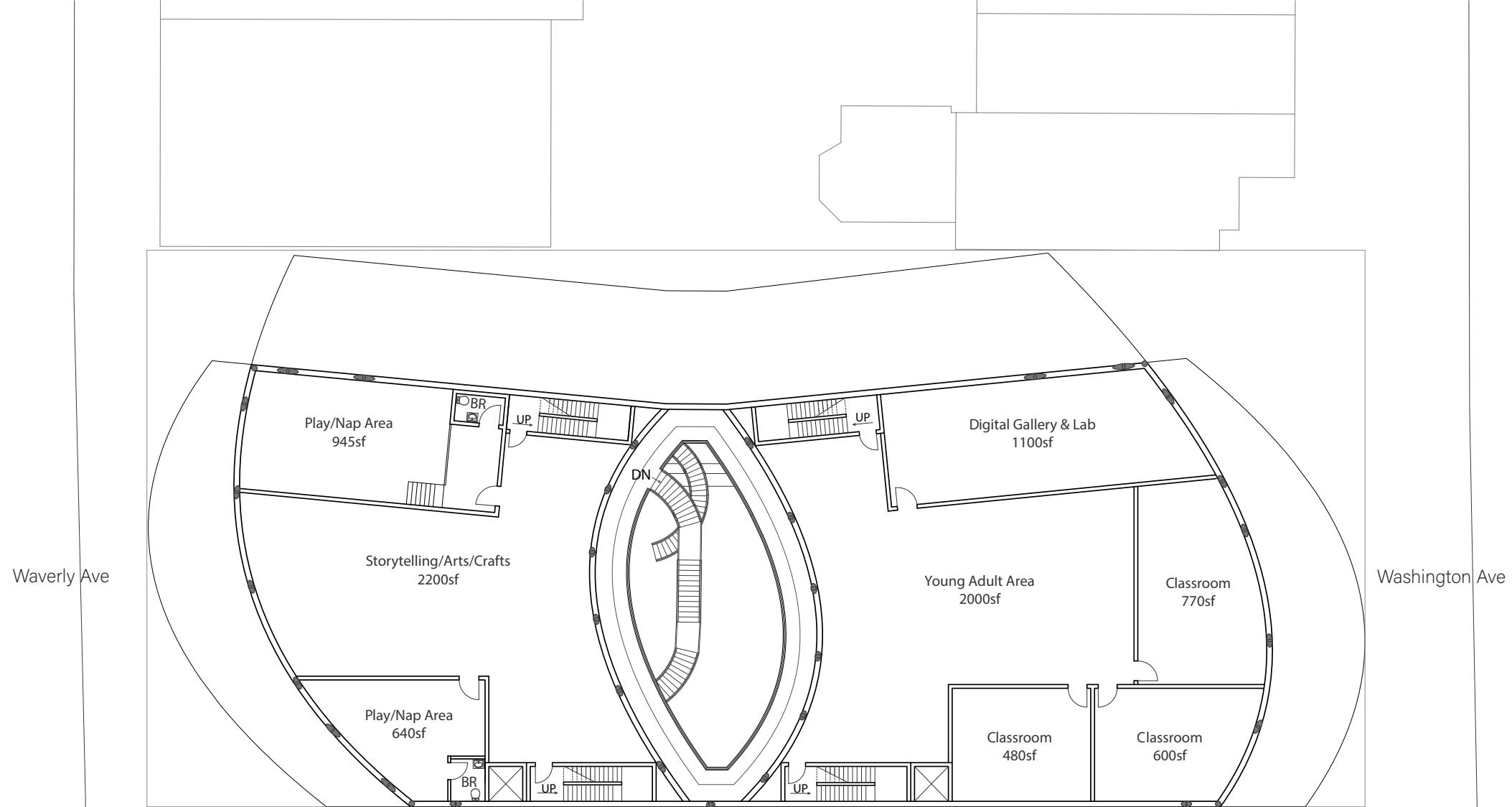
Washington Ave



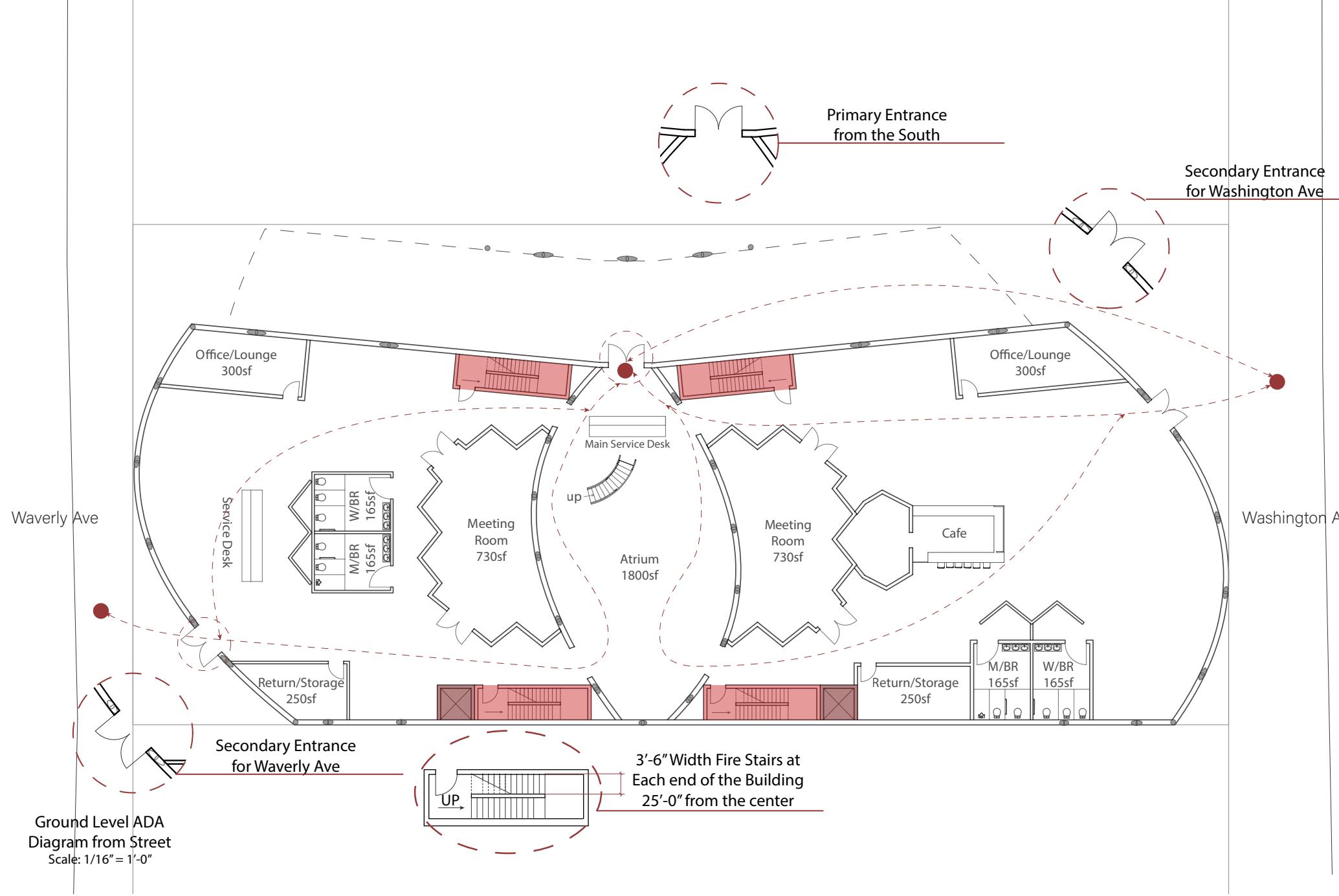
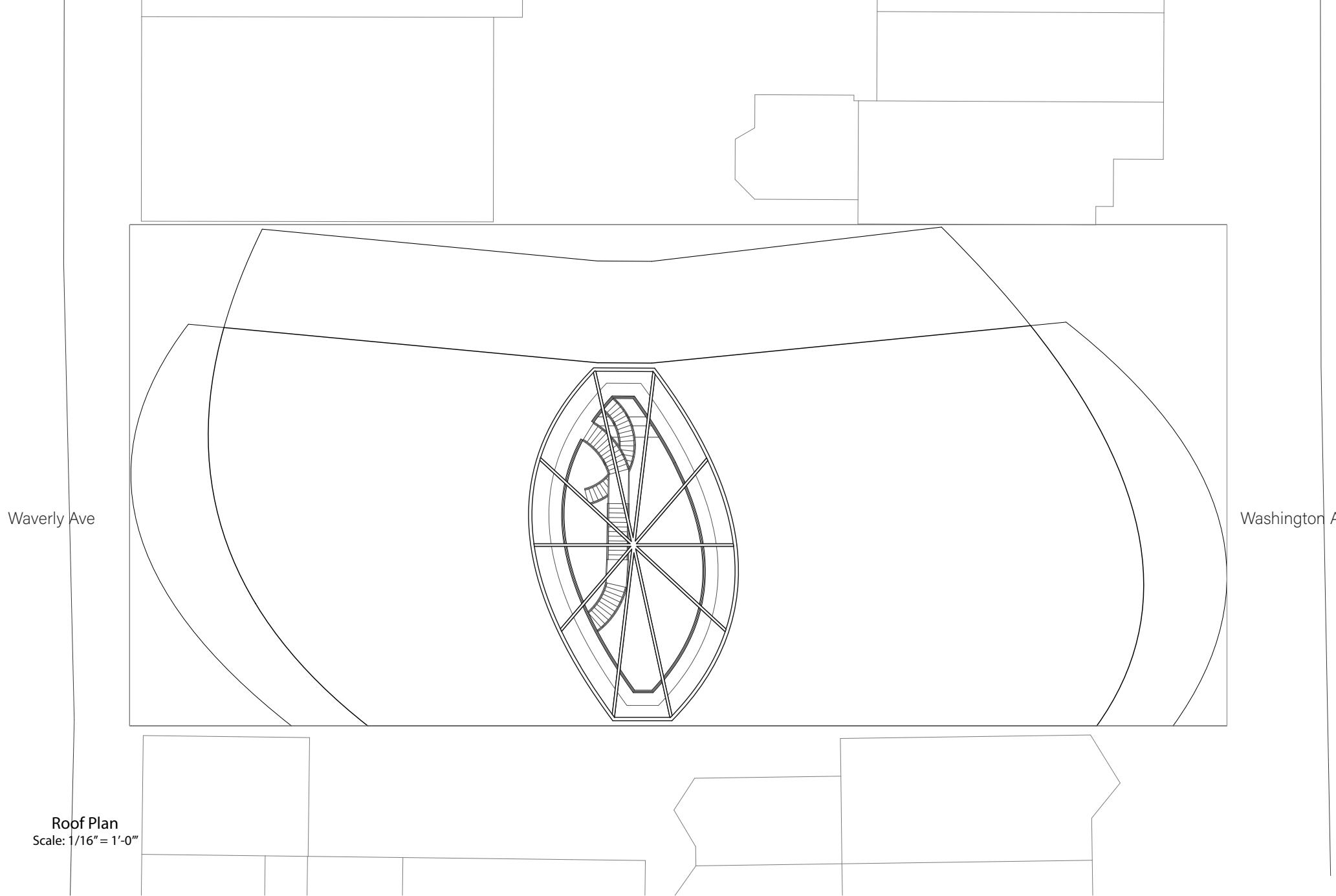
Ground Level Plan  
Scale: 1/16" = 1'-0"

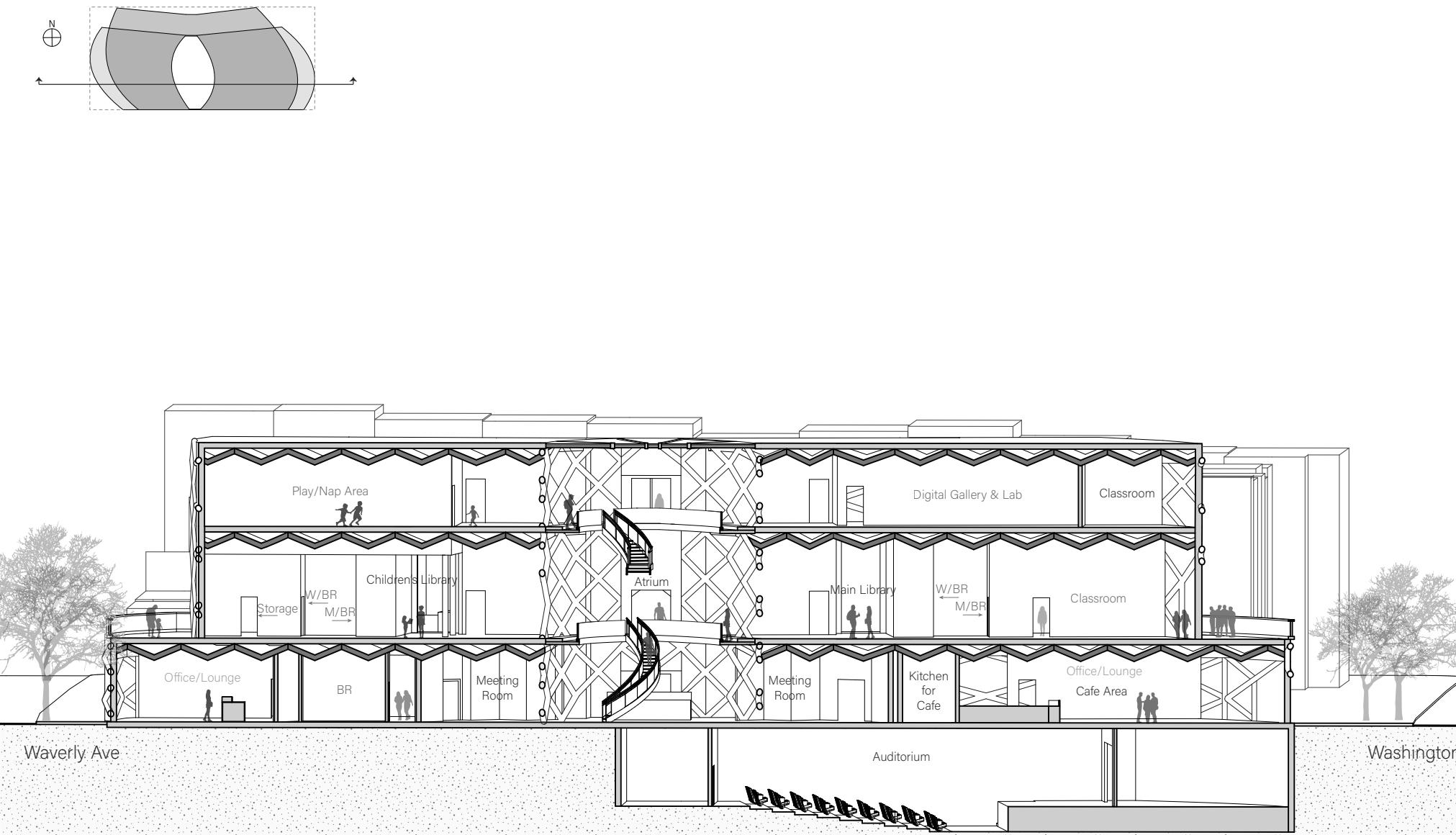


2nd Level Plan  
Scale: 1/16" = 1'-0"



3rd Level Plan  
Scale: 1/16" = 1'-0"





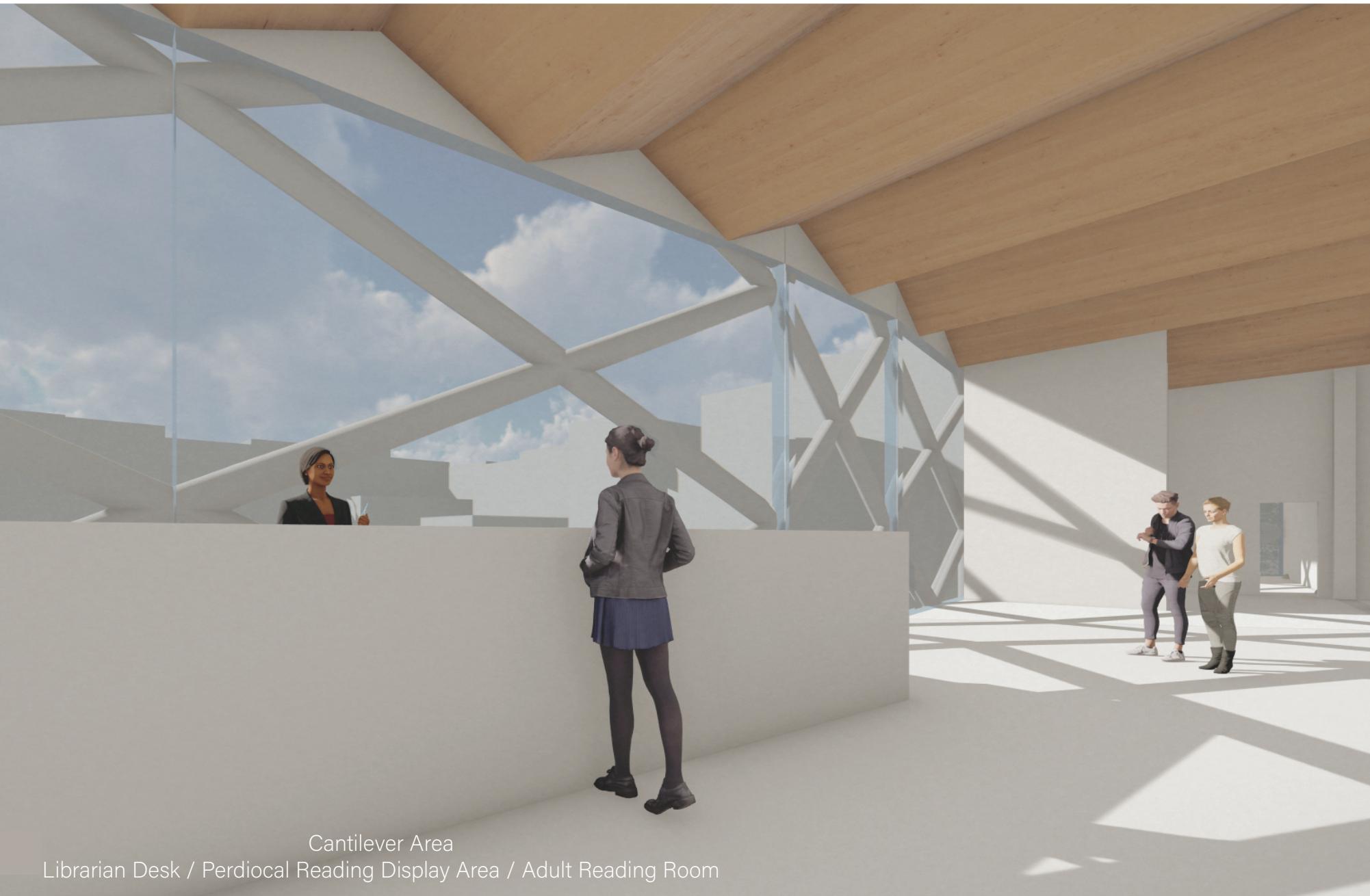
Perspective Section Looking North



Perspective Section Looking East

Scale 1/16" = 1'-0"

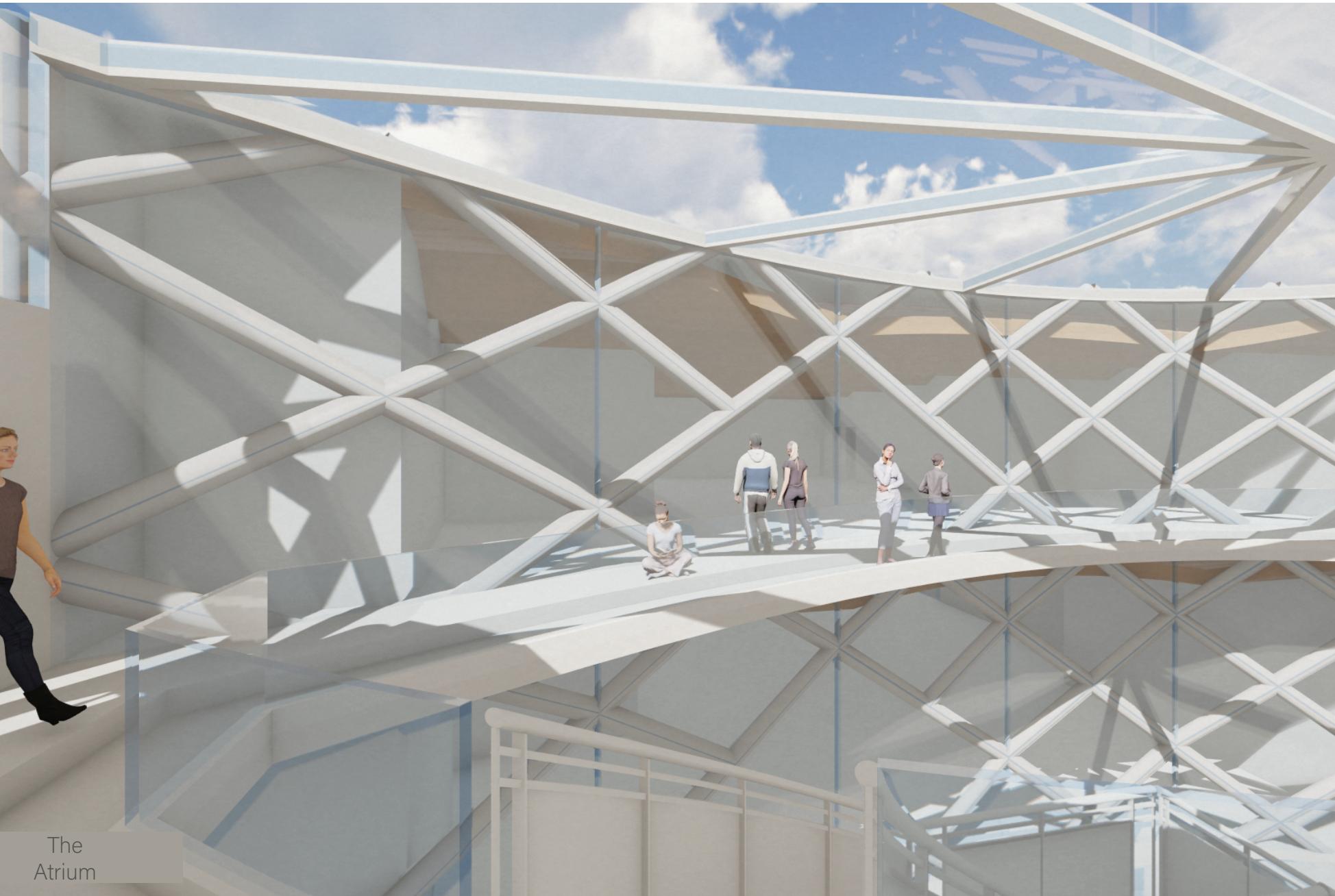




Cantilever Area  
Librarian Desk / Periodical Reading Display Area / Adult Reading Room



The Play/Nap area is located on the 3rd floor  
The double height children's library on the second floor allows for the opportunity to create a sunken area

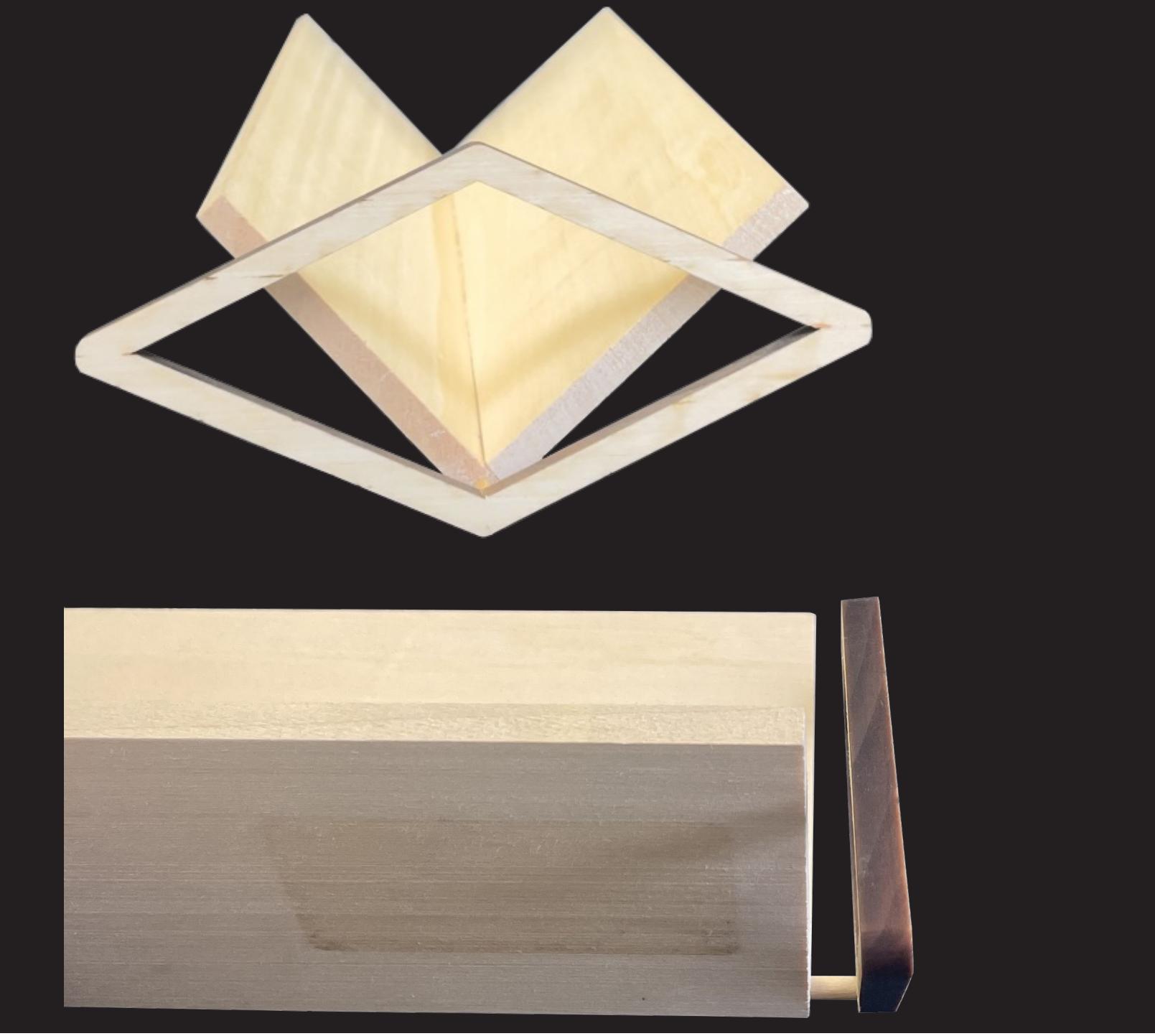




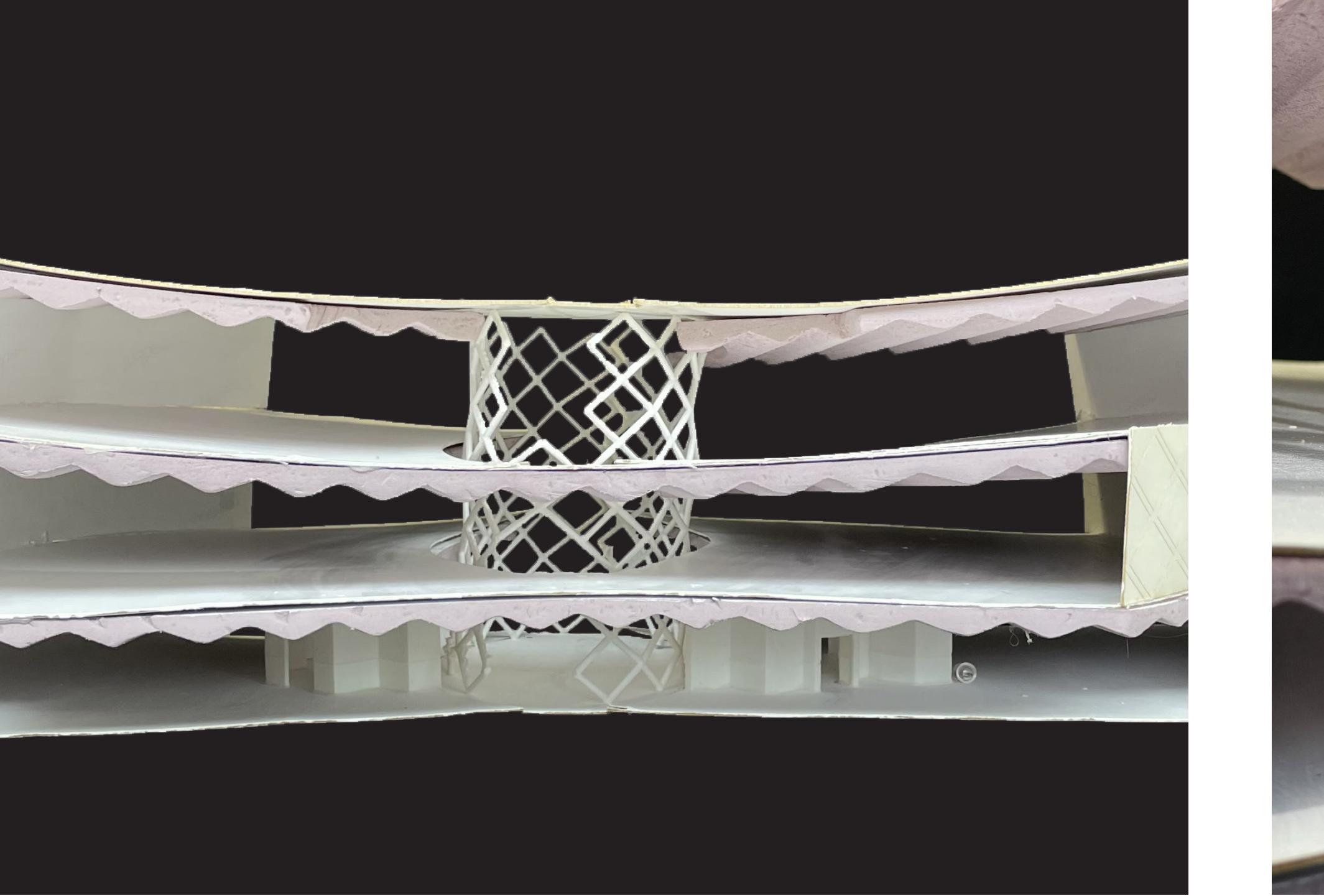
1/16th Massing / Facade Model



1/4th Structural Components Model



1/8th Interior Structural Model



1/8th Interior Structural Model

