



Art Gallery

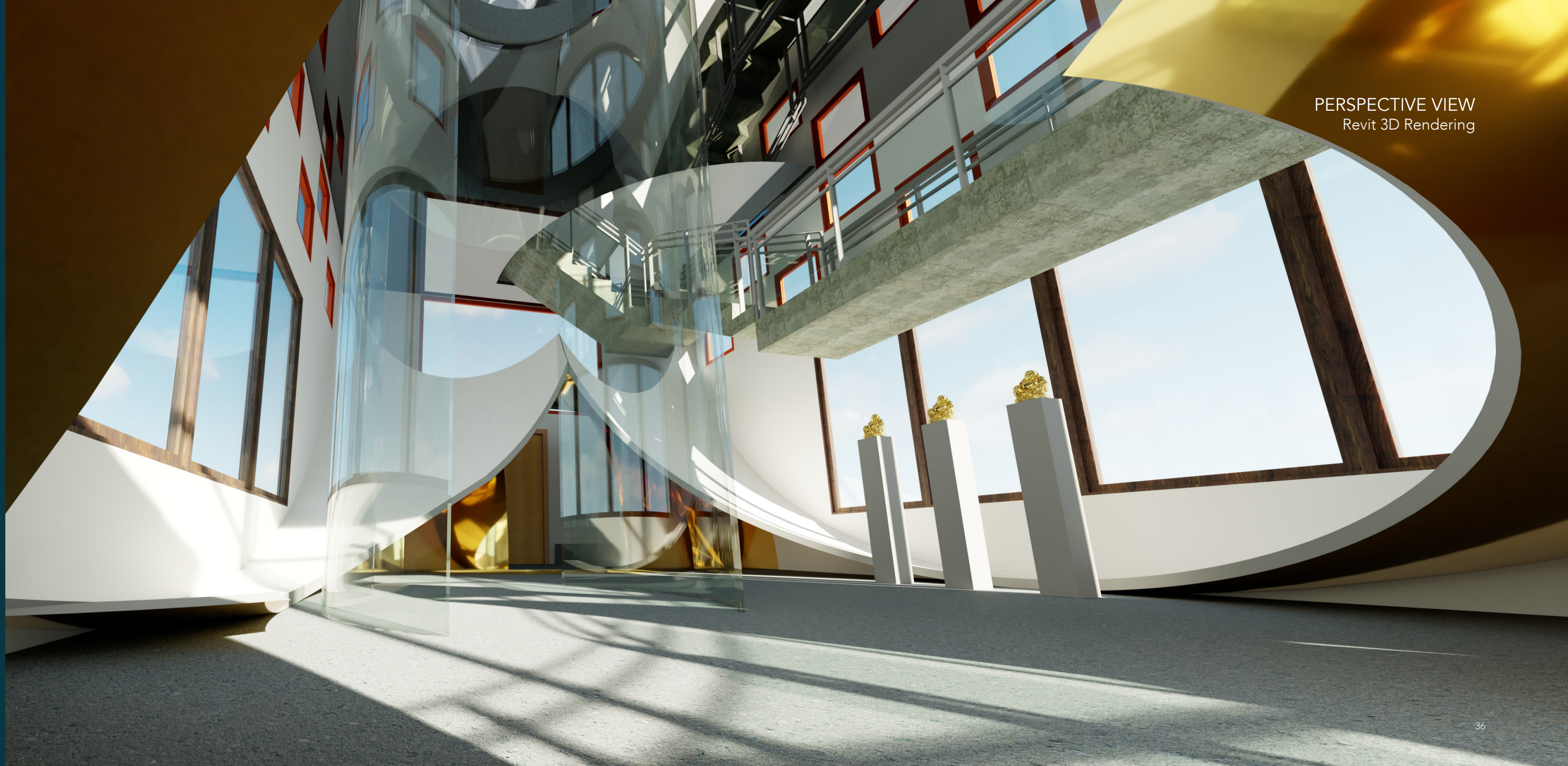
Autodesk Revit & Rhinoceros 6.0

Rhinoceros 6.0 was used for general abstract shape finding in this exercise.

The resulting forms were imported to Revit and applied inside the mandatory default structure.

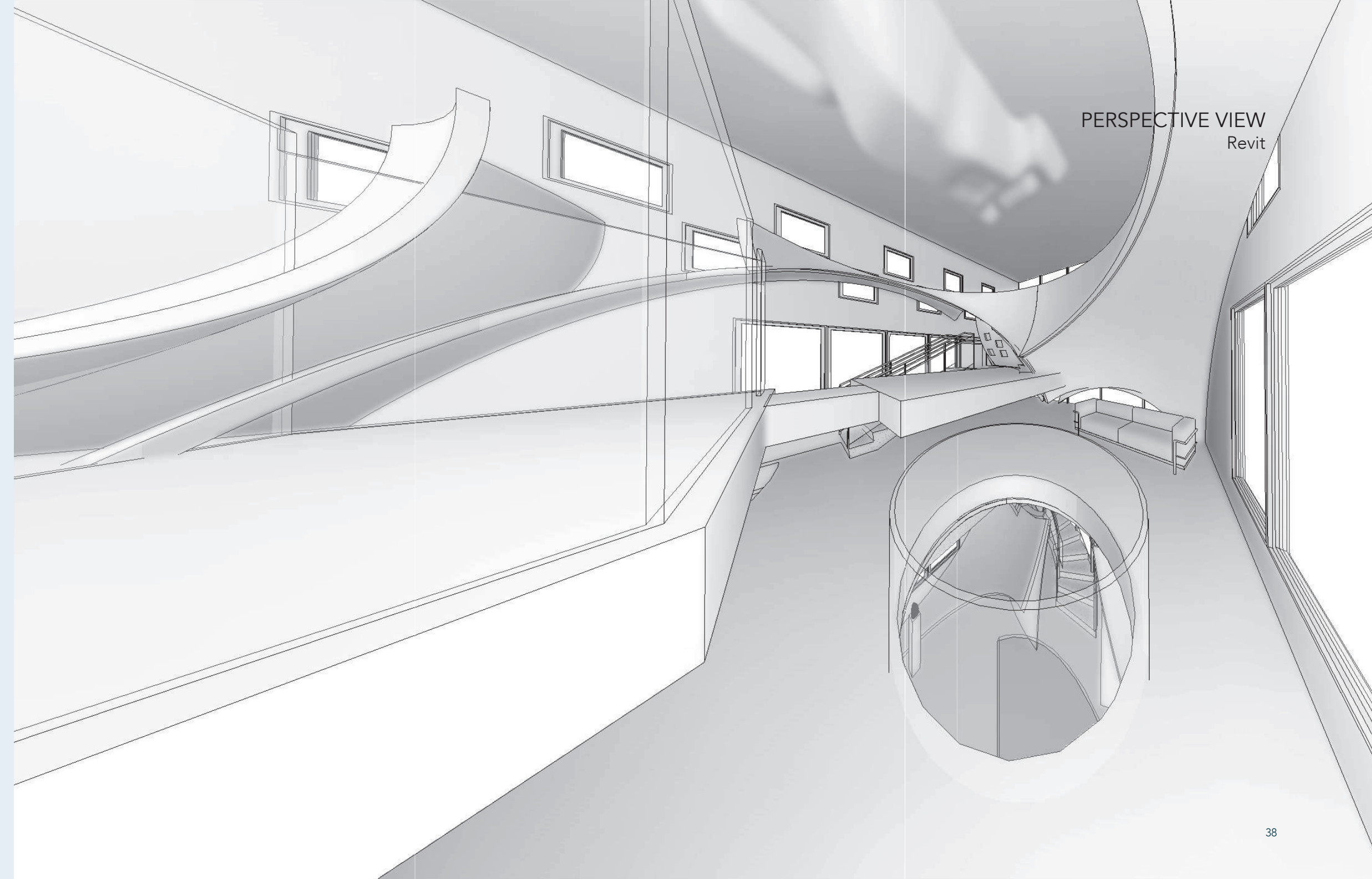
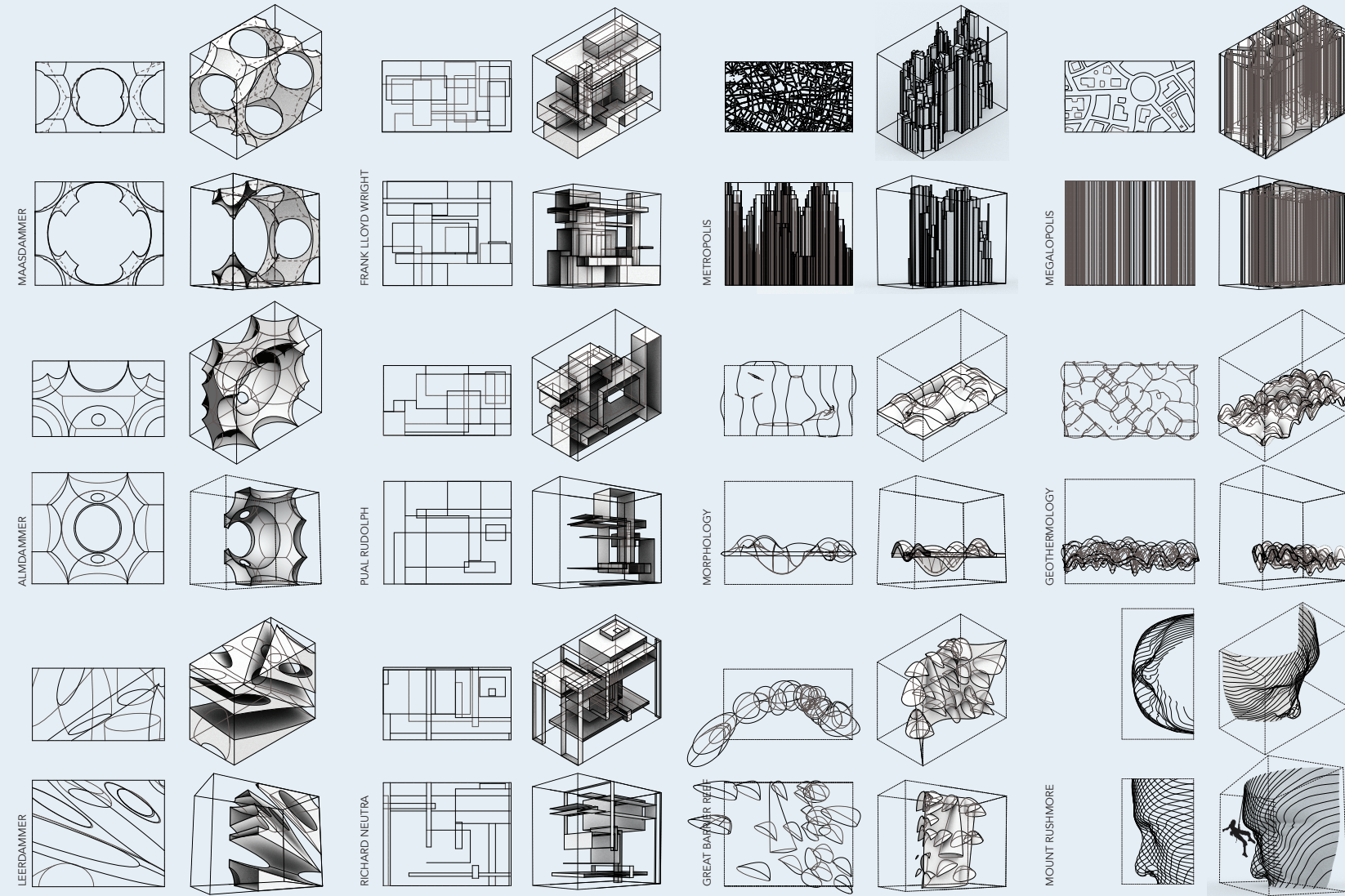
The cube structure was refined with windows, doors, skylight openings as well as floor levels which were determined by the imported 3D shapes.

Material application, light and prespective view finding were achieved with Revit's internal rendering engine.



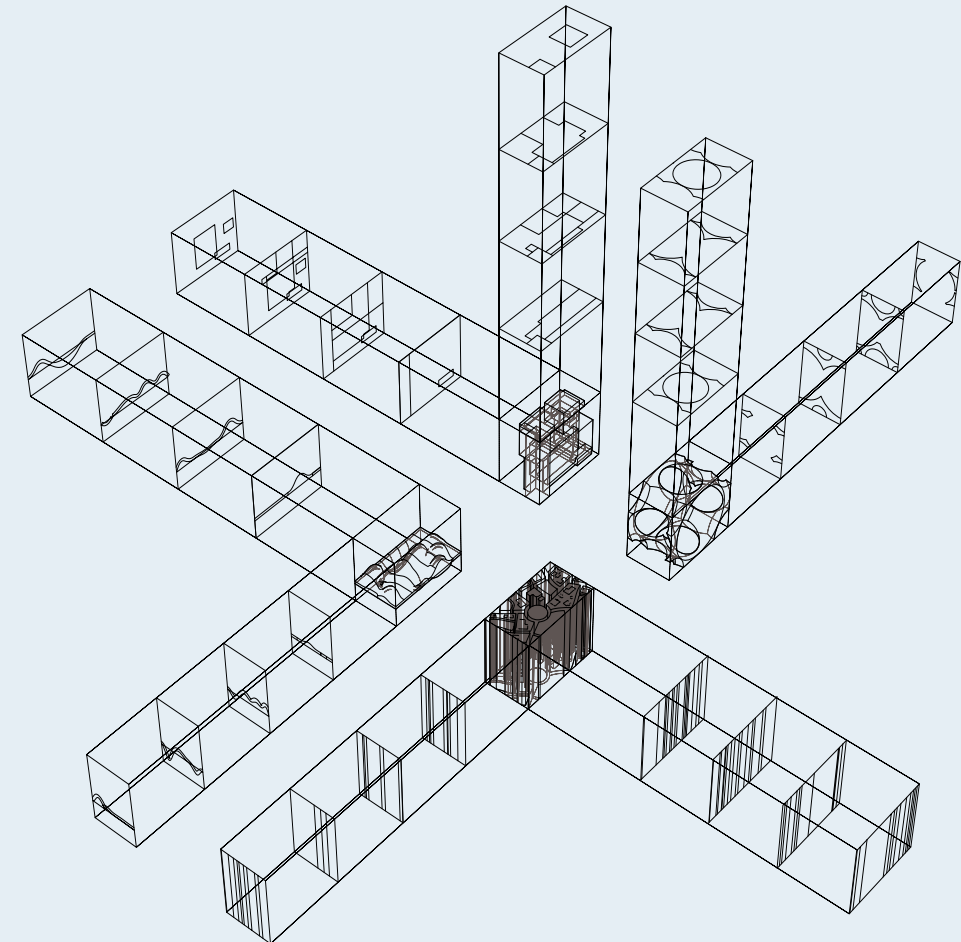
PERSPECTIVE VIEW
Revit 3D Rendering

3D MODELLING STUDIES
Rhino 6.0 & Illustrator

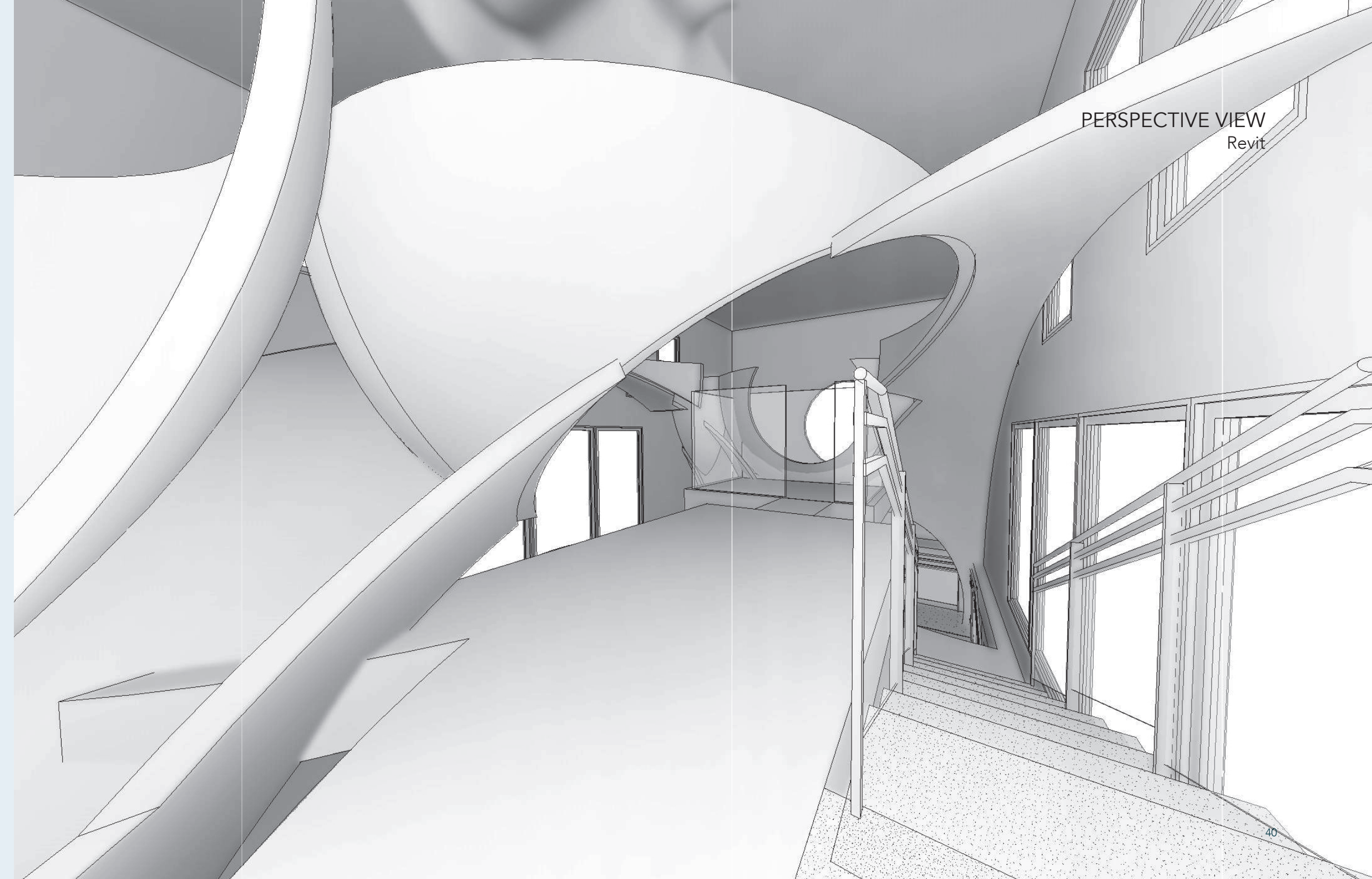


PERSPECTIVE VIEW
Revit

SHAPE FINDING AND APPLICATION
Rhino 6.0, Revit & Illustrator

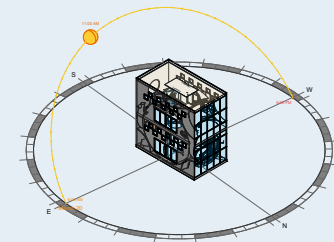
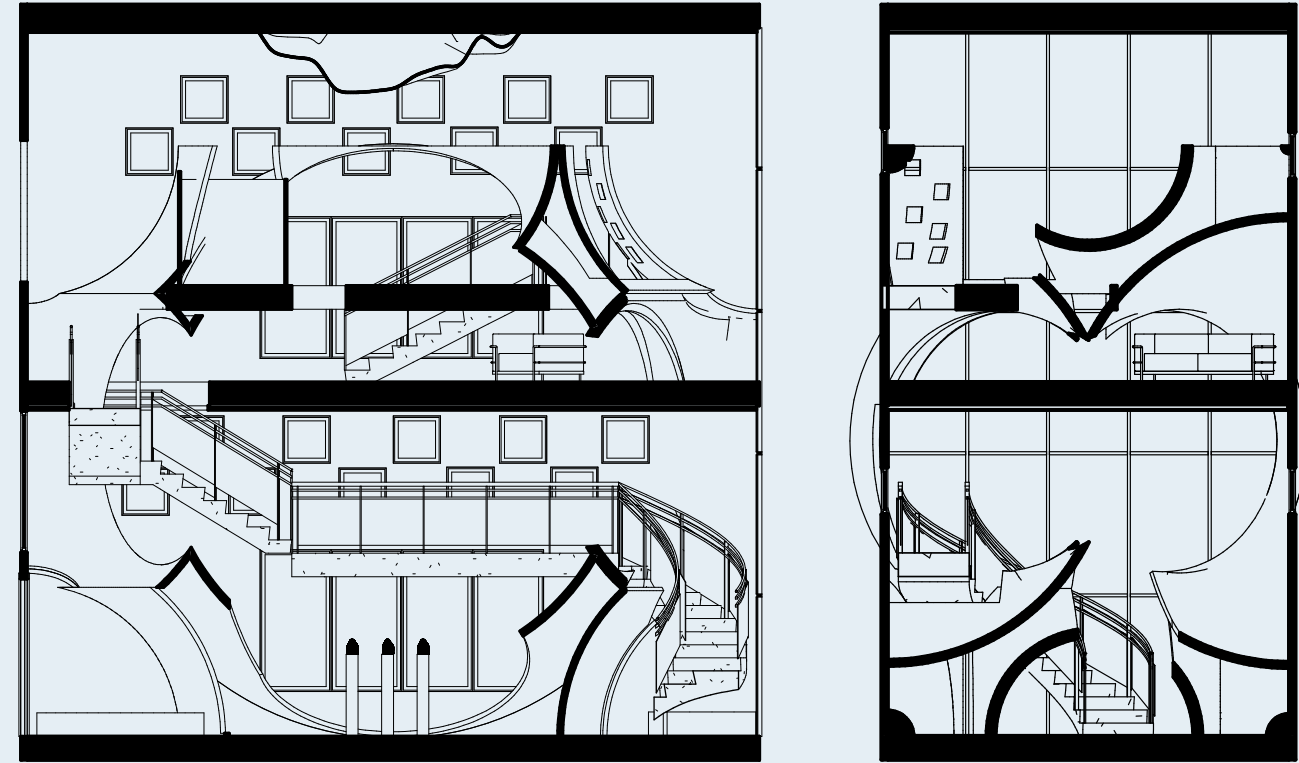


PERSPECTIVE VIEW
Revit

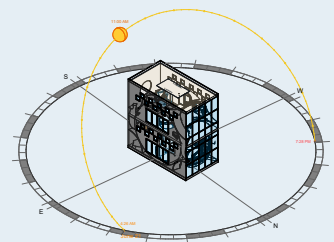


MODEL SECTION AND SOLAR INFLUENCE

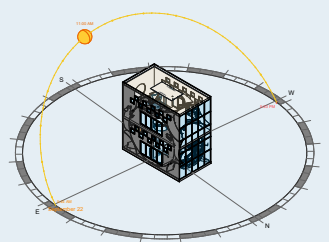
Revit



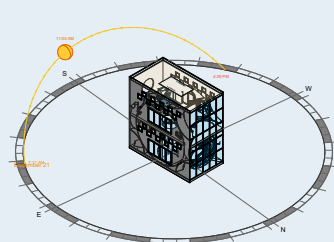
SPRING



SUMMER



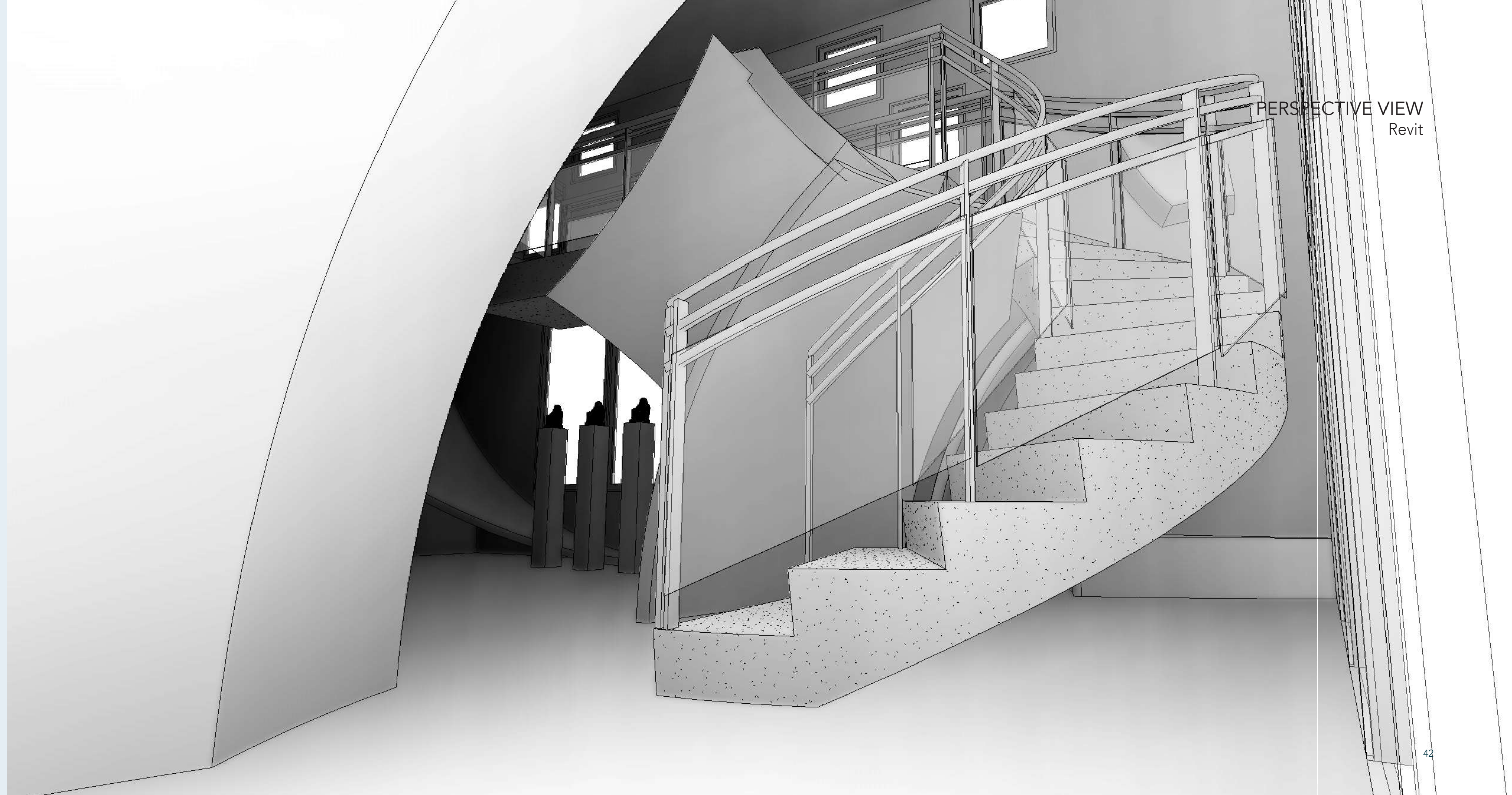
FALL



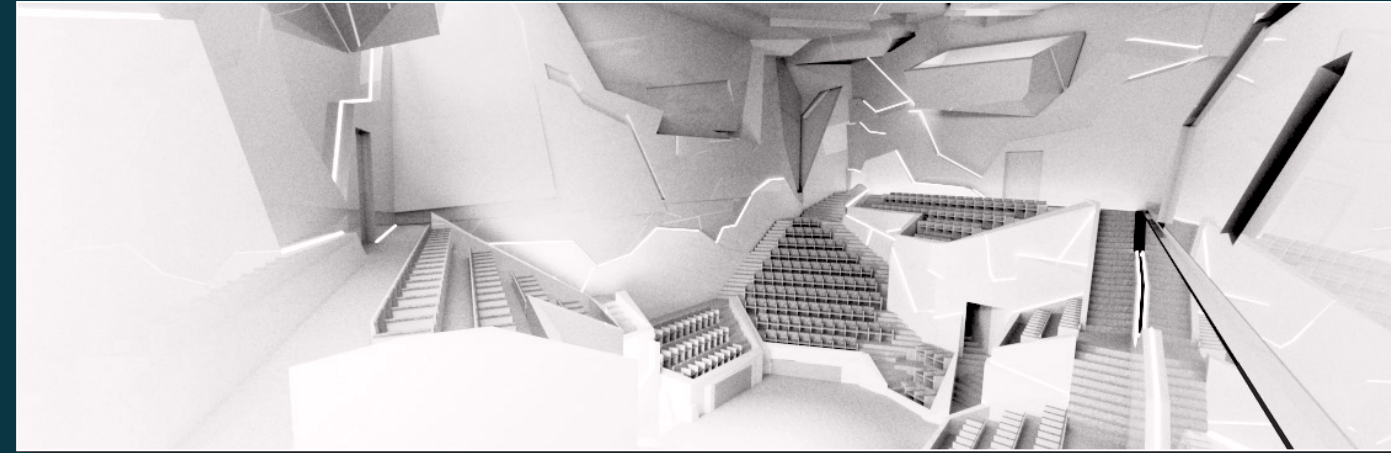
WINTER

PERSPECTIVE VIEW

Revit



COMPUTATIONAL ENGINEERING
SOFTWARE SKILLS SELECTION



FORT BATTERY WEED

Environmental Defense Fund Headquarters
A Retreat Facility on Staten Island

This headquarter for the Environmental Defense Fund (EDF) cares about the preservation of water in all of its forms.

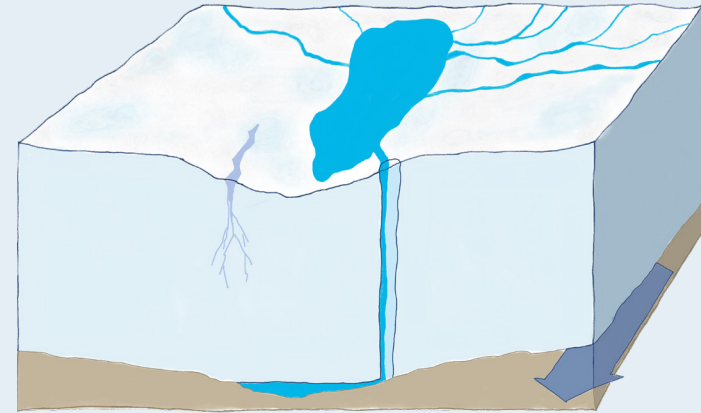
This project focuses on the impacts of global warming in regards to water level rising, ice shelf calving and the creation of rapidly growing glacial voids.

This concept explores and elucidates natural occurrences on a micro-scale level through its sculpted structures, inspired by the shapes of frozen water within the setting of Fort Battery Weed.



SCIENTIST RESEARCH LABORATORY
Conference Room

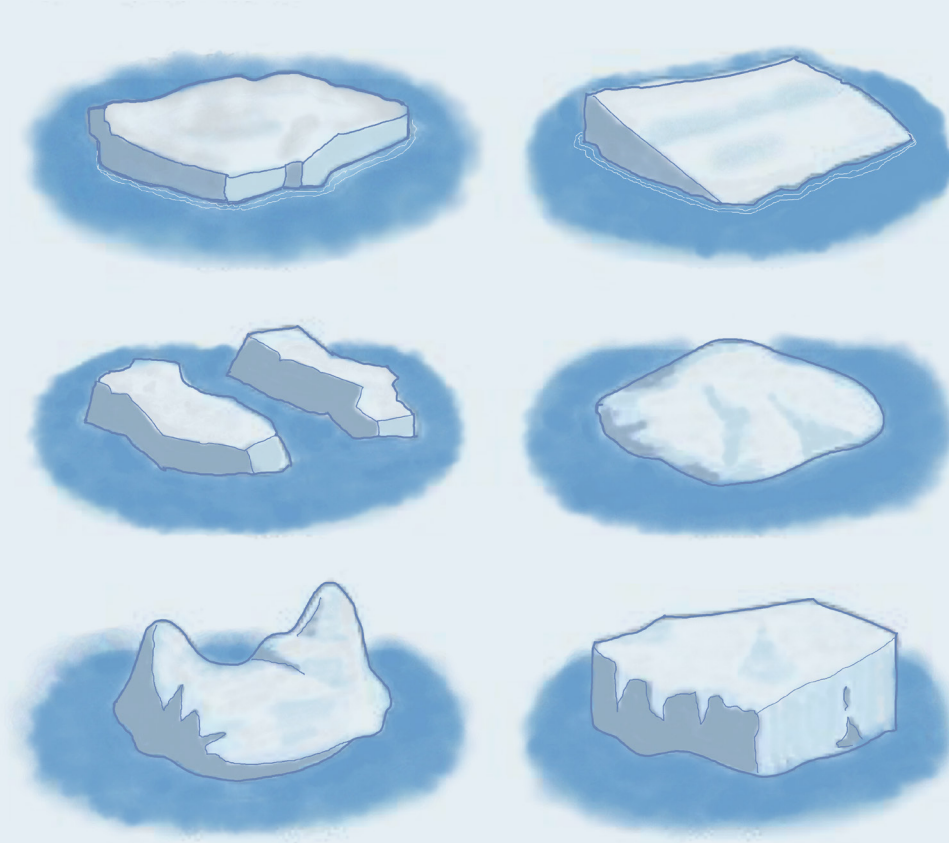
GLOBAL WATER WARMING - DIAGRAMMATIC ANALYSIS
Hand Drawn Sketches enhanced with Adobe Creative Suite



formation of glacial lakes / voids



iceberg calving

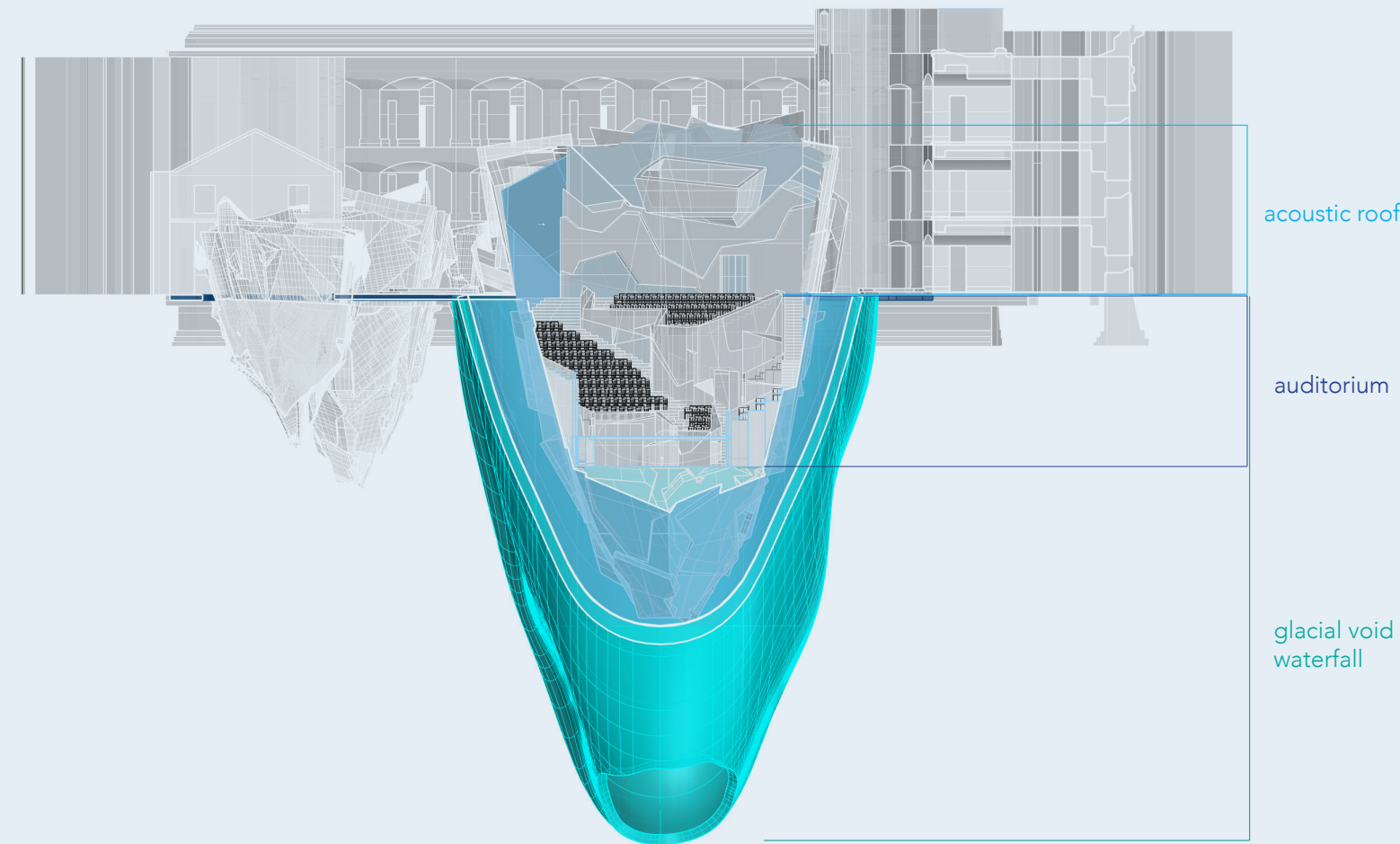


study of common shapes and iceberg formations

FORT BATTERY WEED AT THE VERRAZZANO-NARROWS BRIDGE
Flooded Moat and Courtyard Proposal with Floating Auditorium and Conference Spaces



DIAGRAMMATIC SECTION
Auditorium Iceberg hovering over Glacial Void Waterfall

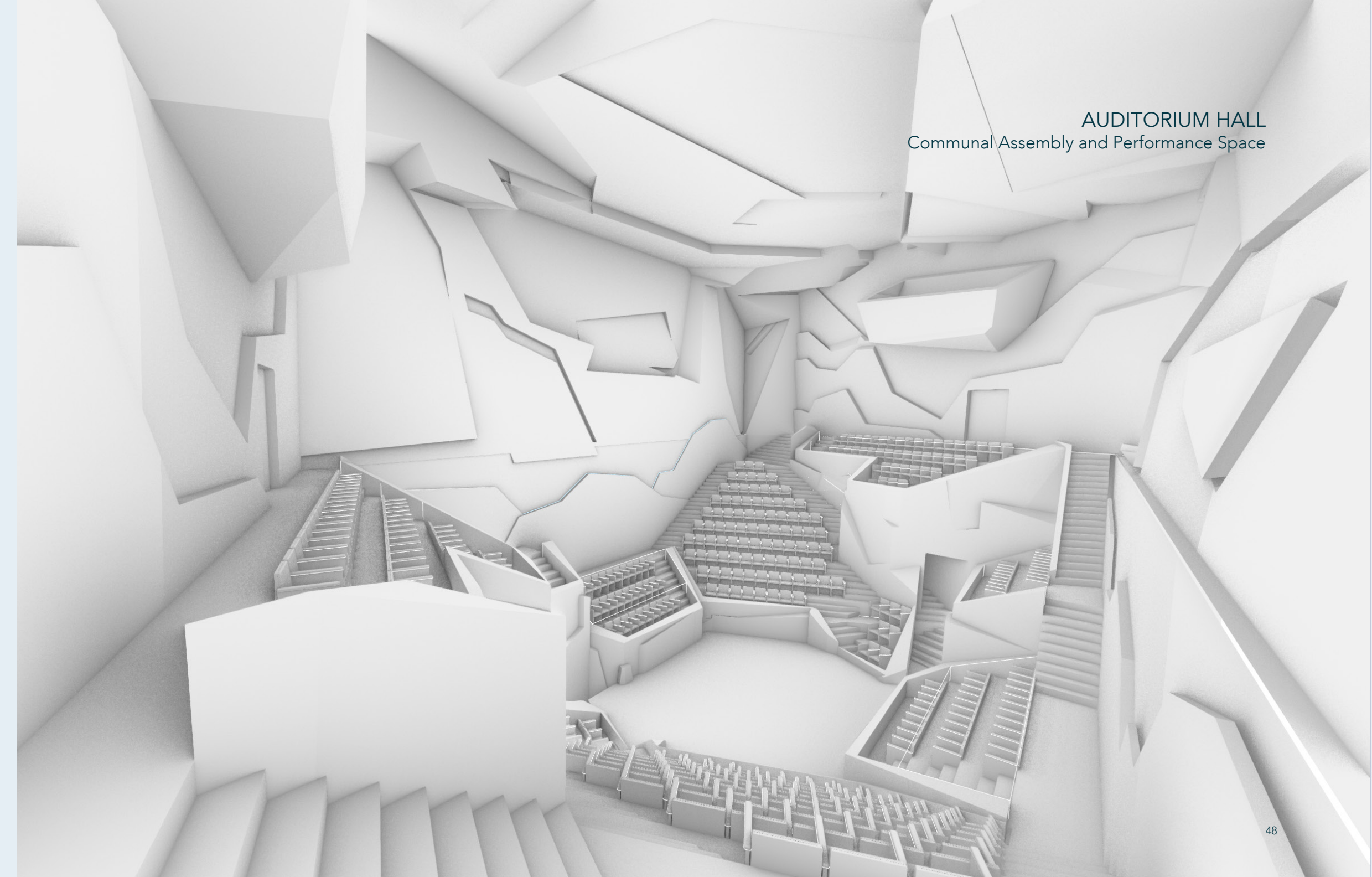


acoustic roof

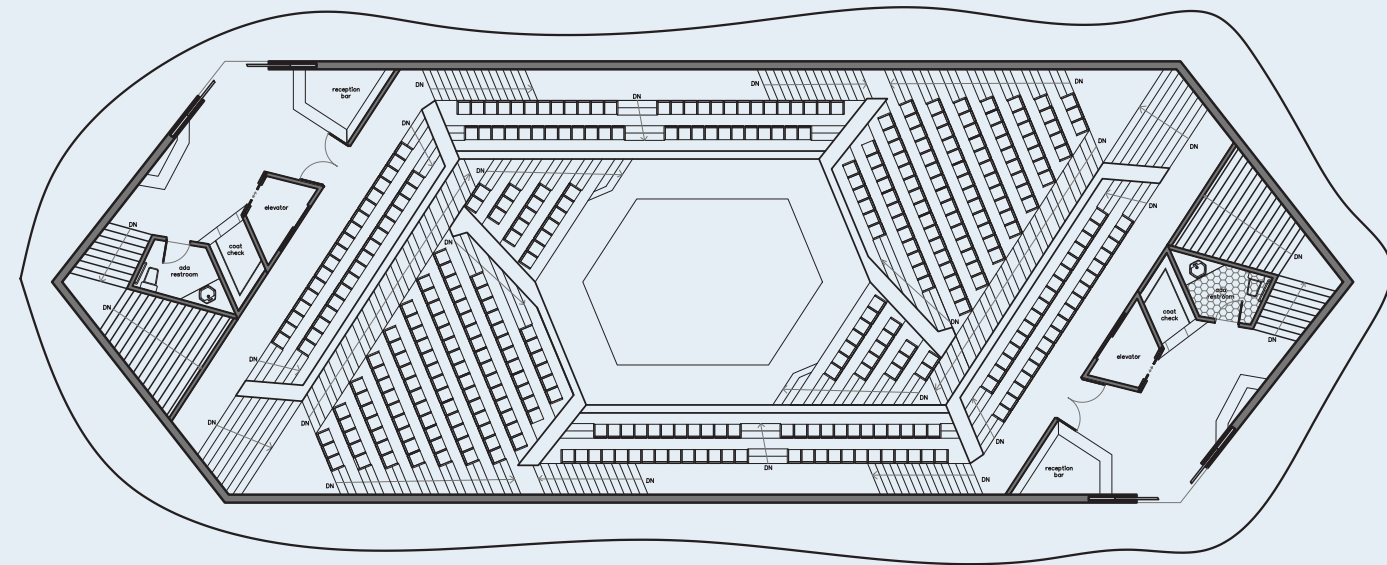
auditorium

glacial void waterfall

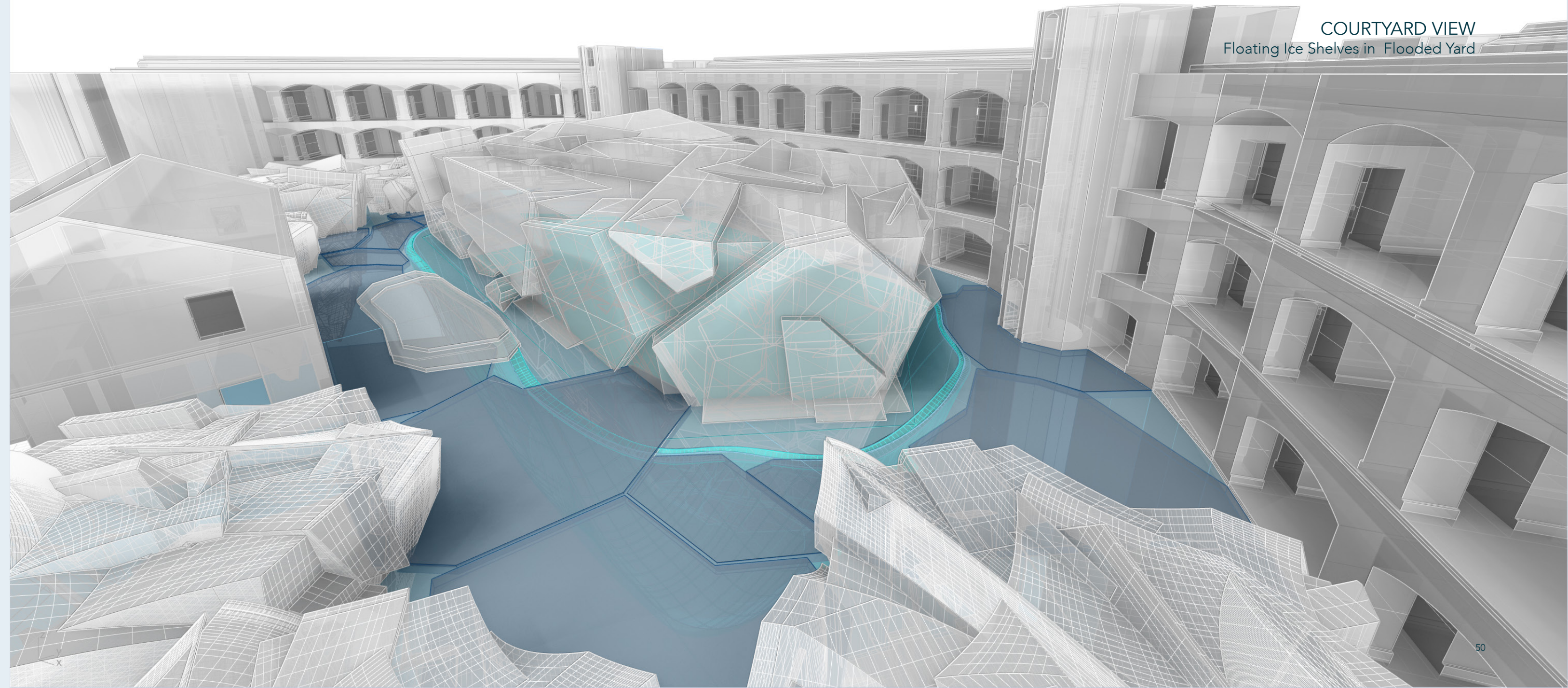
AUDITORIUM HALL
Communal Assembly and Performance Space



ARCHITECTURAL DRAWING
Auditorium Ground Floor Plan



COURTYARD VIEW
Floating Ice Shelves in Flooded Yard





Desert Breeze

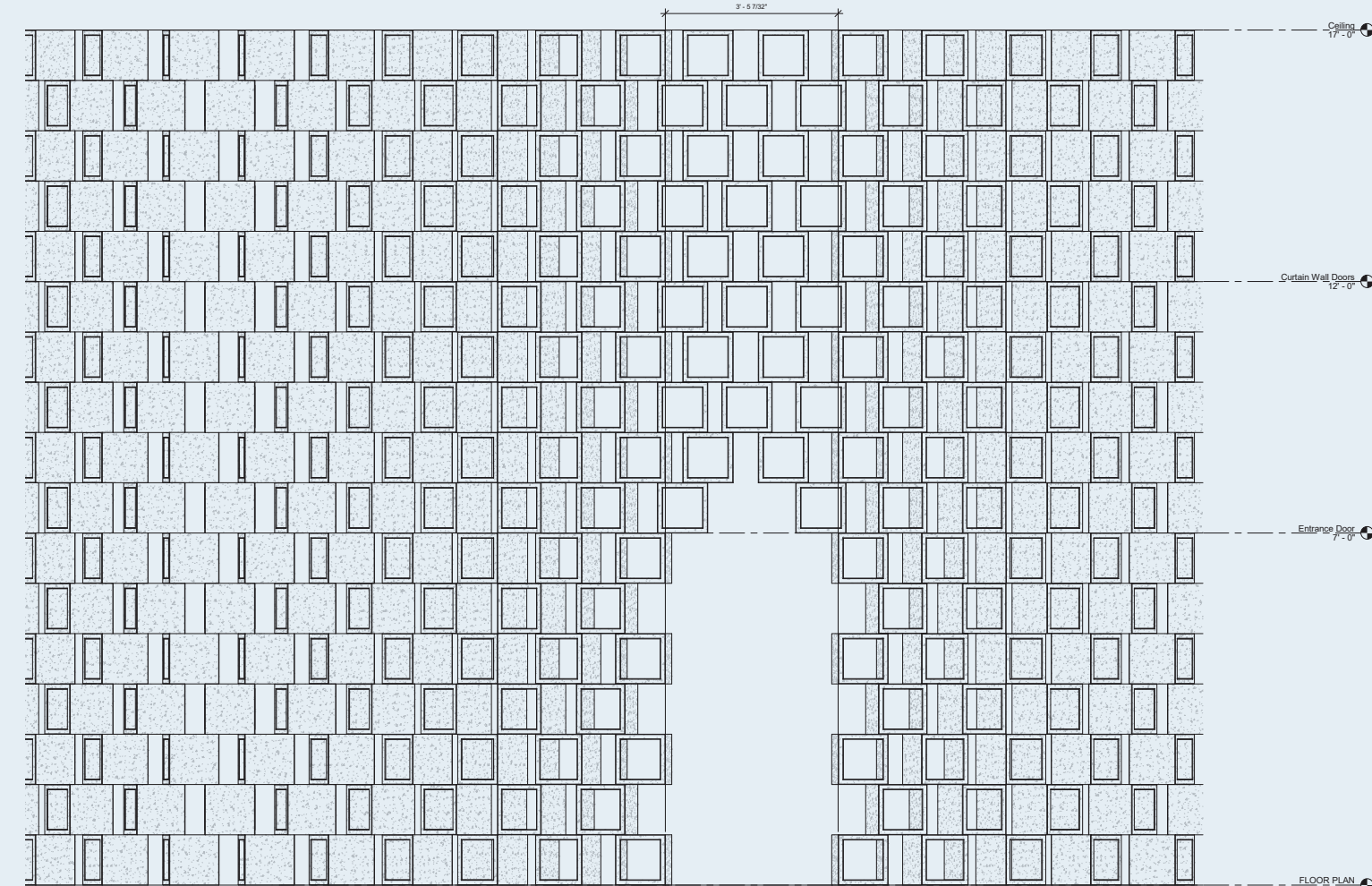
Parametric Design - Semi-Private Wall

A semi-private wall was designed by utilizing metric parameters to control air and light flow. The lounge like setting is intended to serve as a public meeting place to protect from heat and direct desert sun.



PERSPECTIVE VIEW
Revit 3D View & Enscape

PARAMETRIC WALL
East Elevation

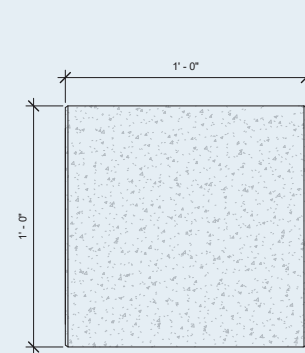


© Elevation Entrance CloseUp
1" = 1'-0"

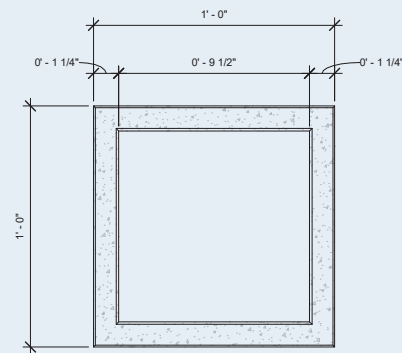


PERSPECTIVE RENDERING
Revit 3D & Enscape

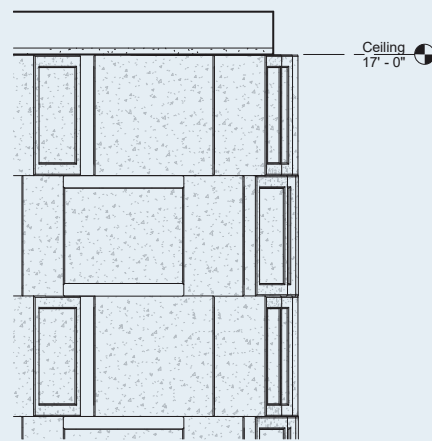
ARCHITECTURAL DETAIL DRAWING
Revit



5 Brick Block Detail Profile
3" = 1'-0"



4 Brick Block Detail Front
3" = 1'-0"



3 CloseUp Entrance Wall
1 1/2' = 1'-0"



PERSPECTIVE RENDERING
Revit 3D & Enscape