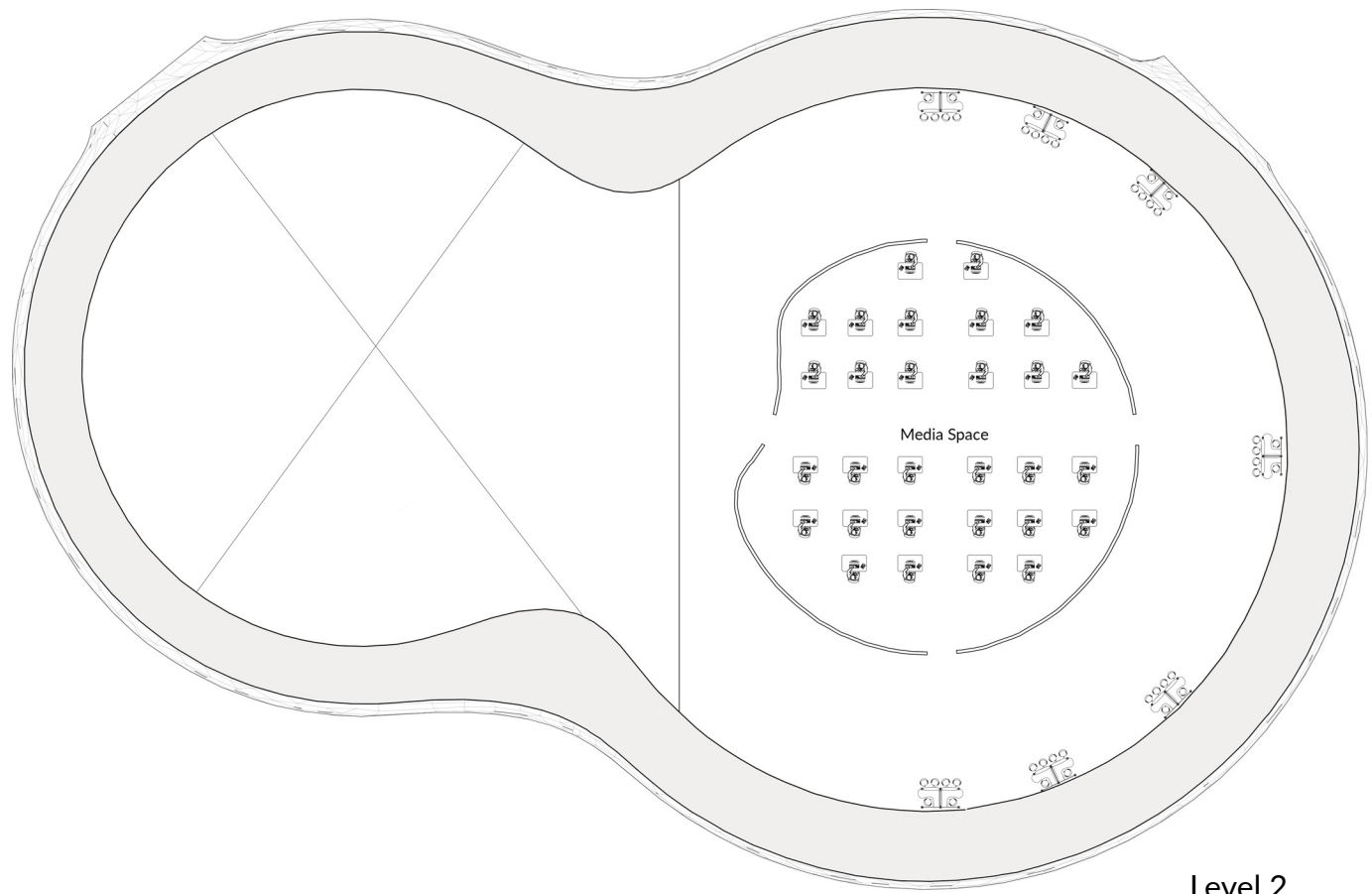
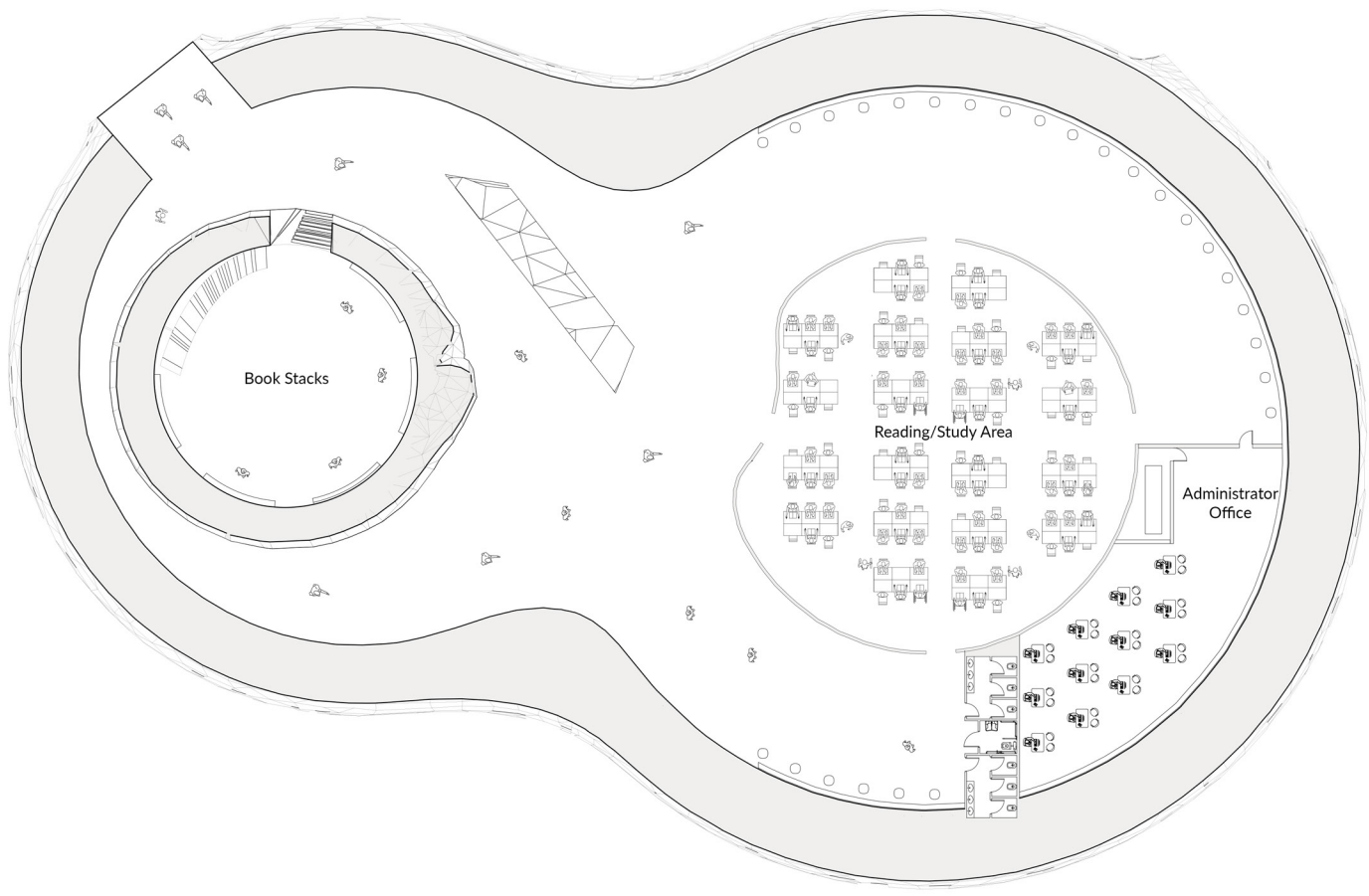
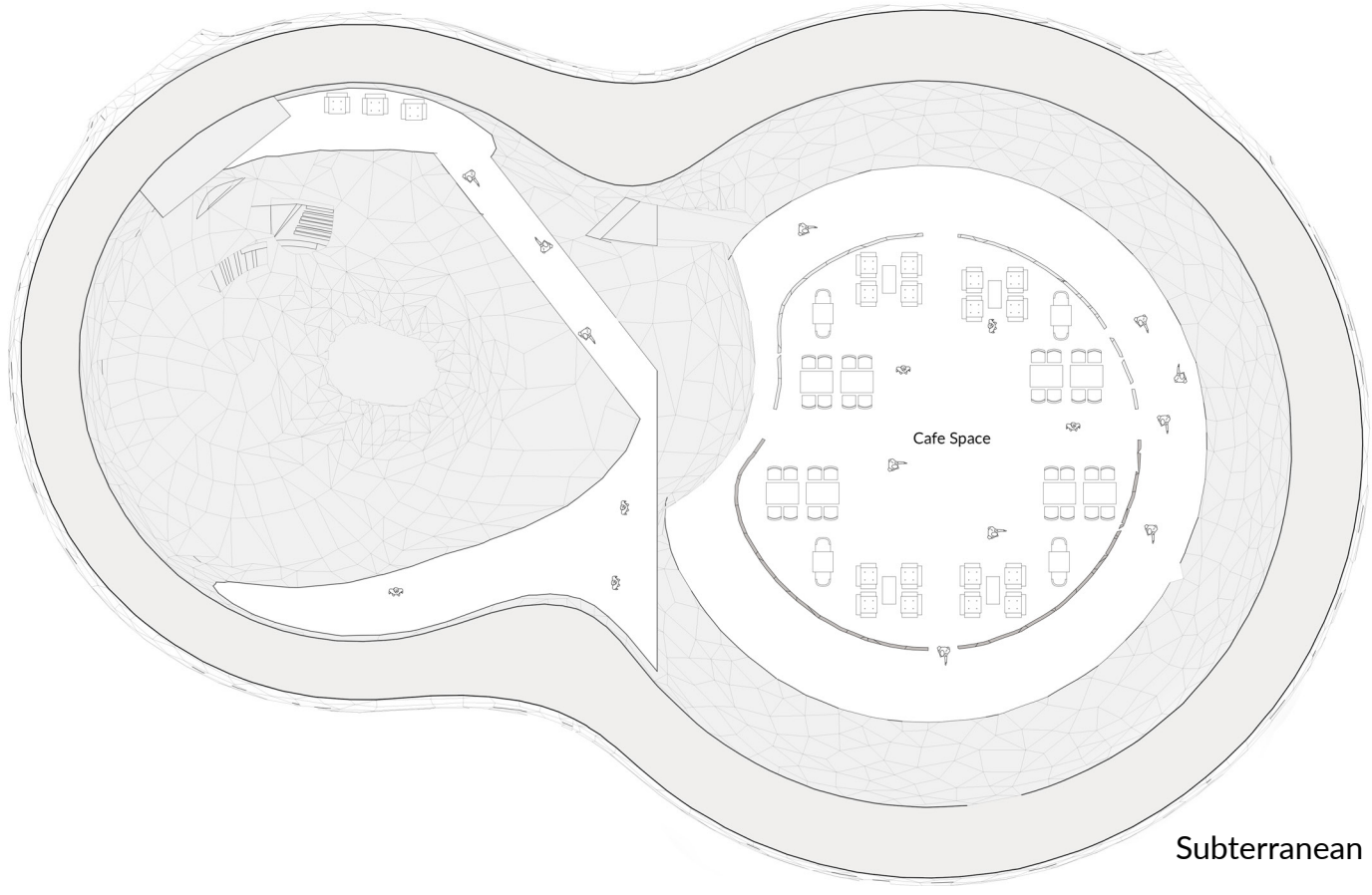




Level 2

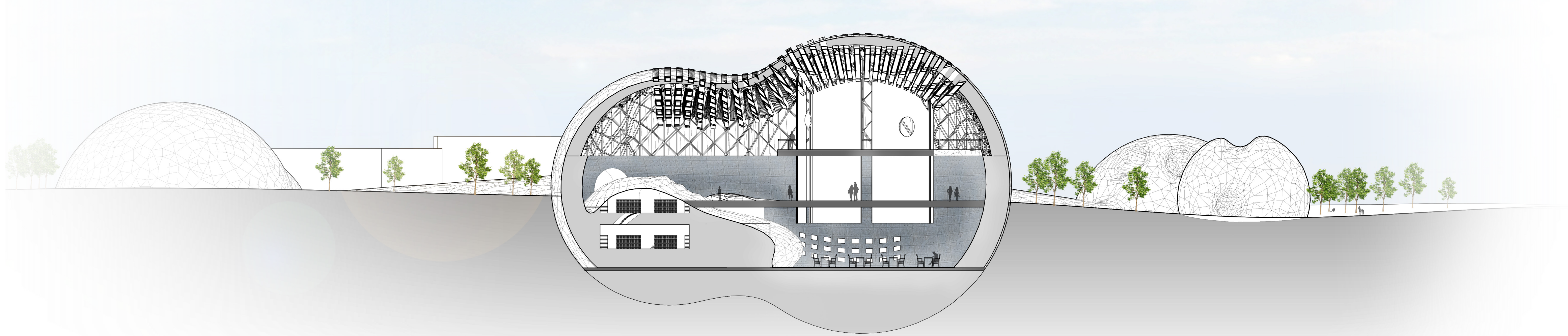


Level 1

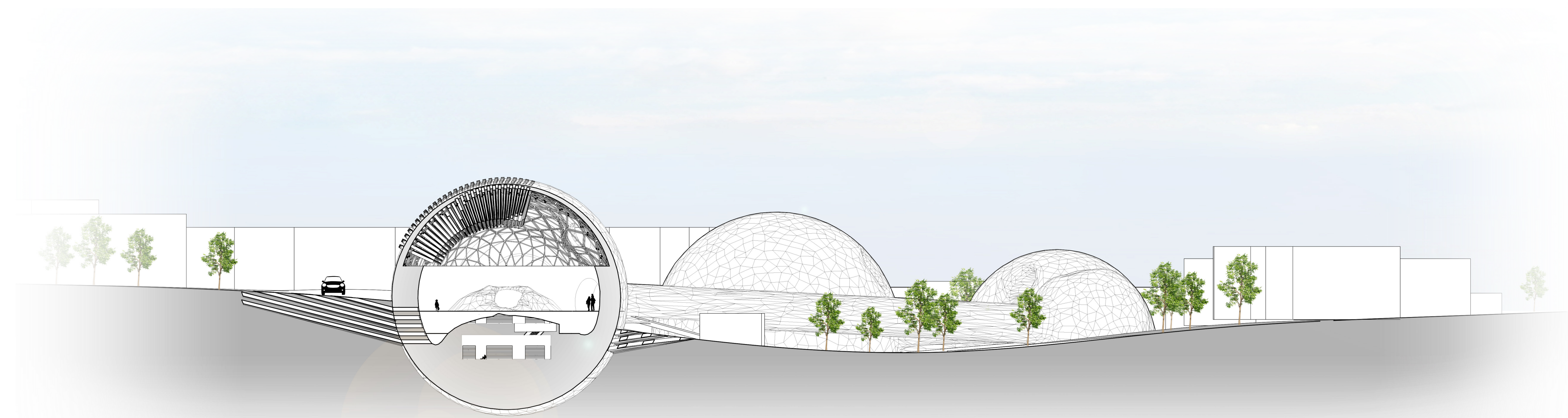


Subterranean Level

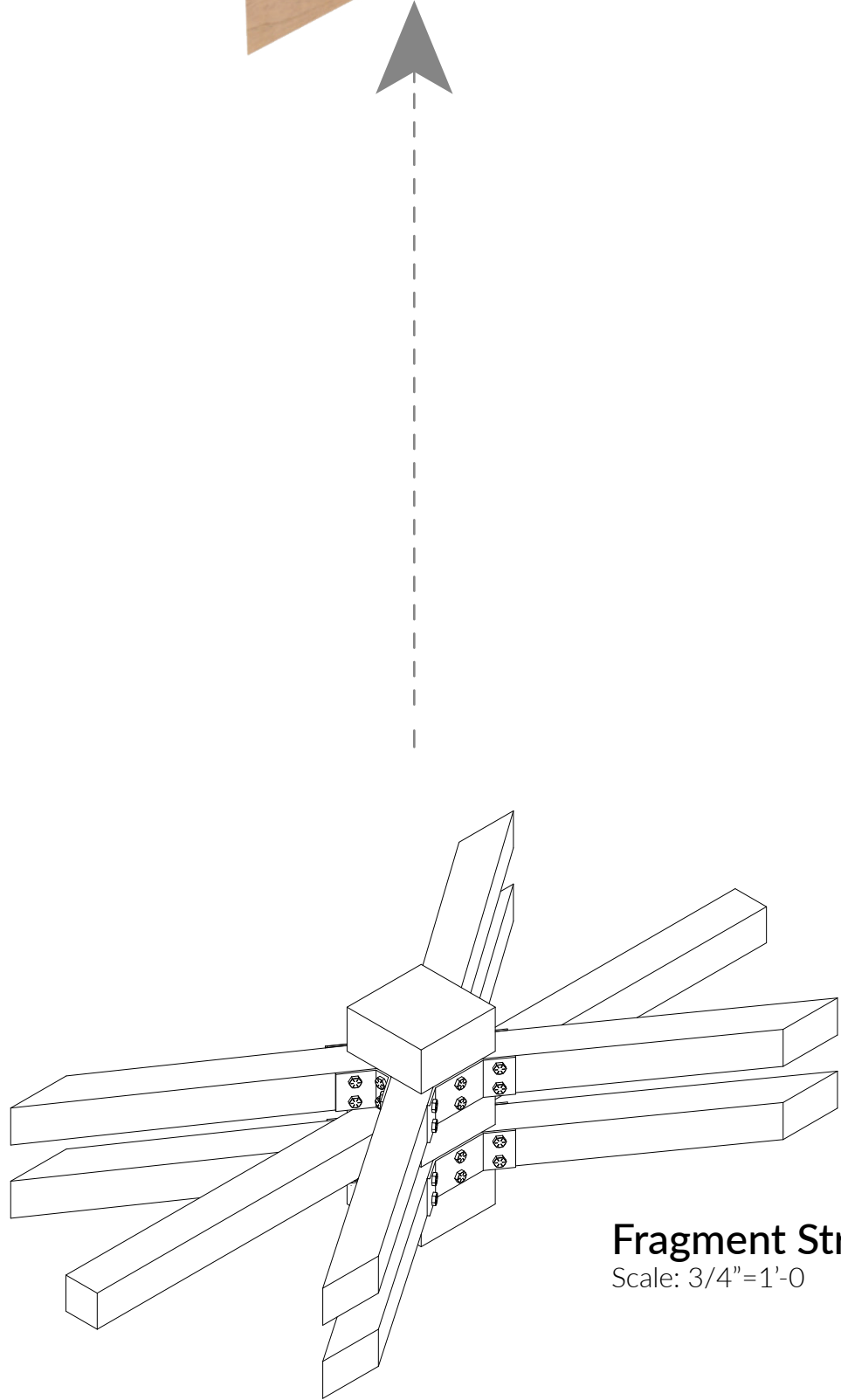
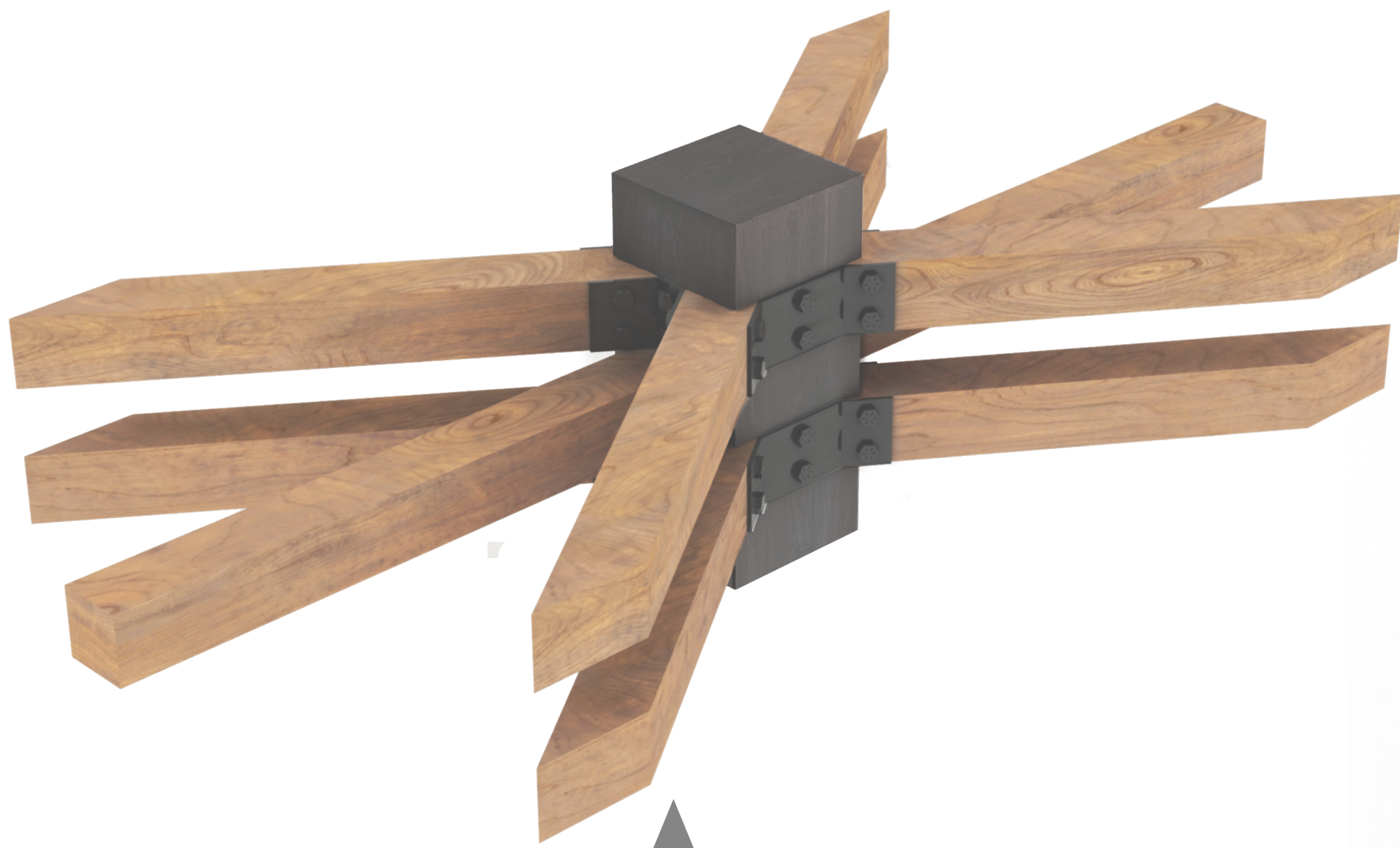
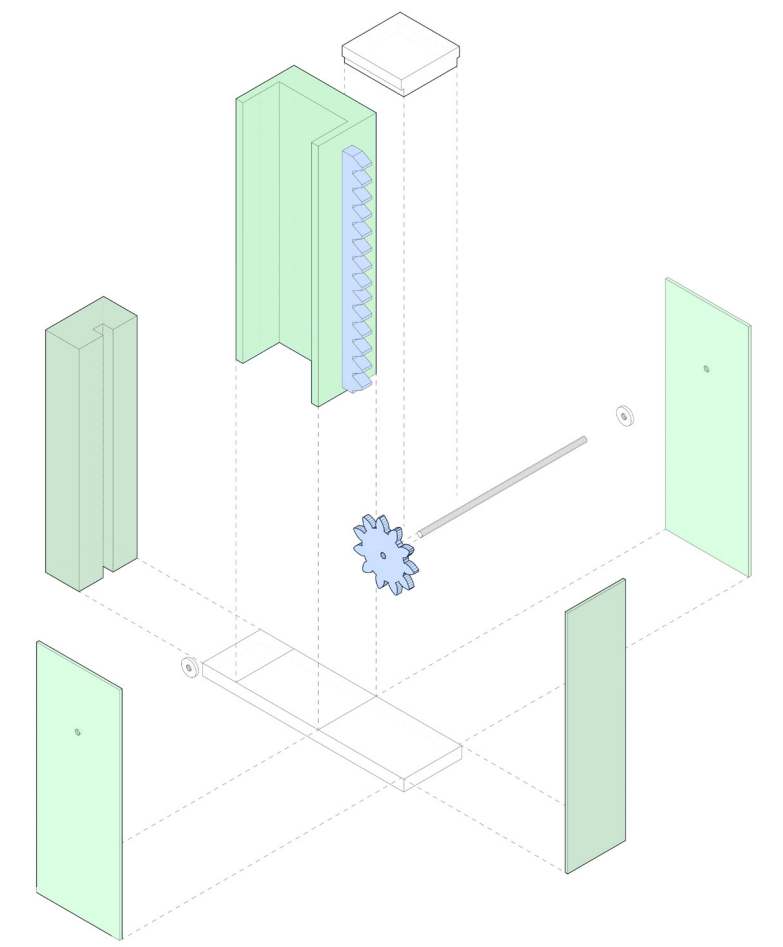
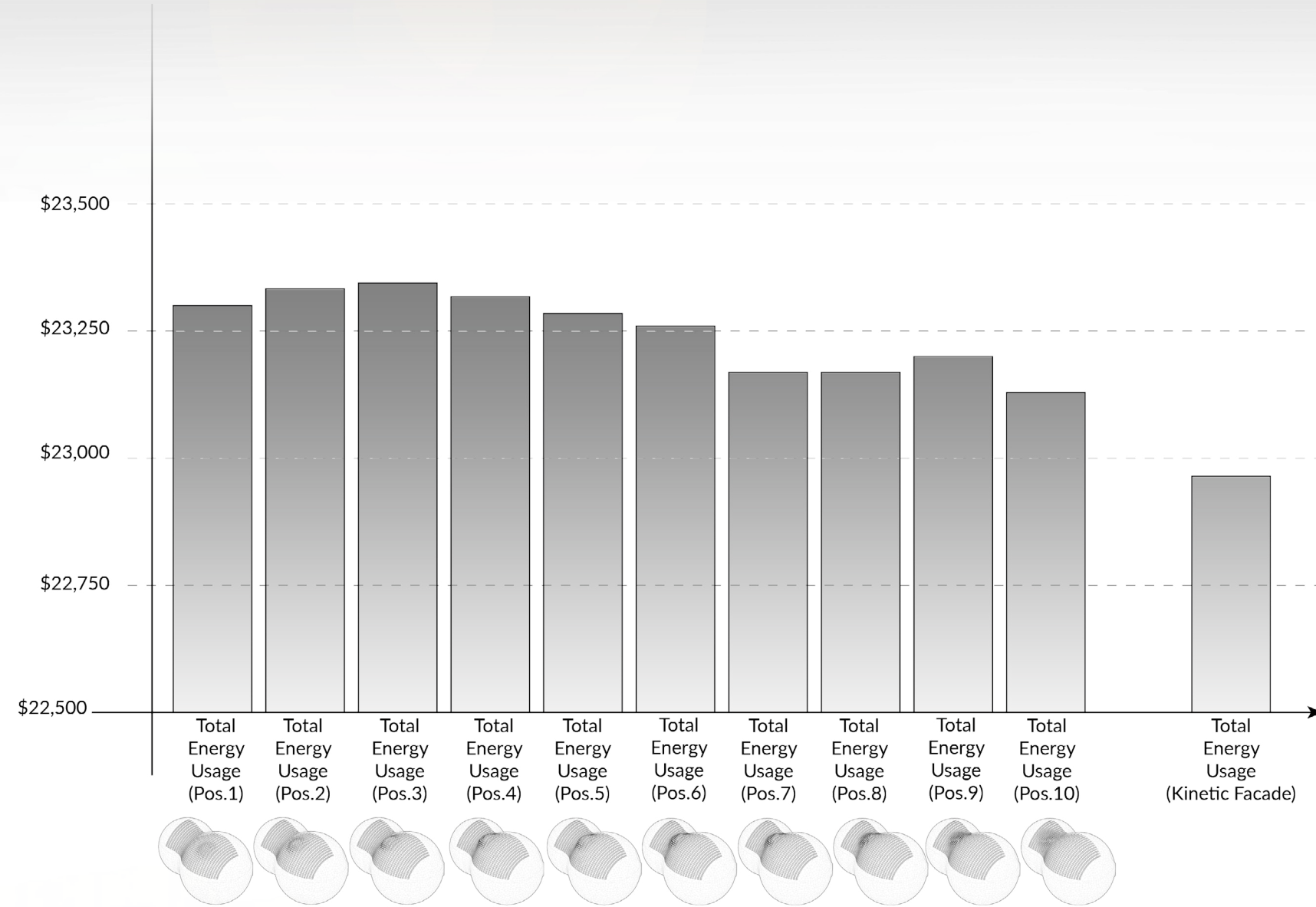
Floor Plan
Scale: 1/32"=1'-0"



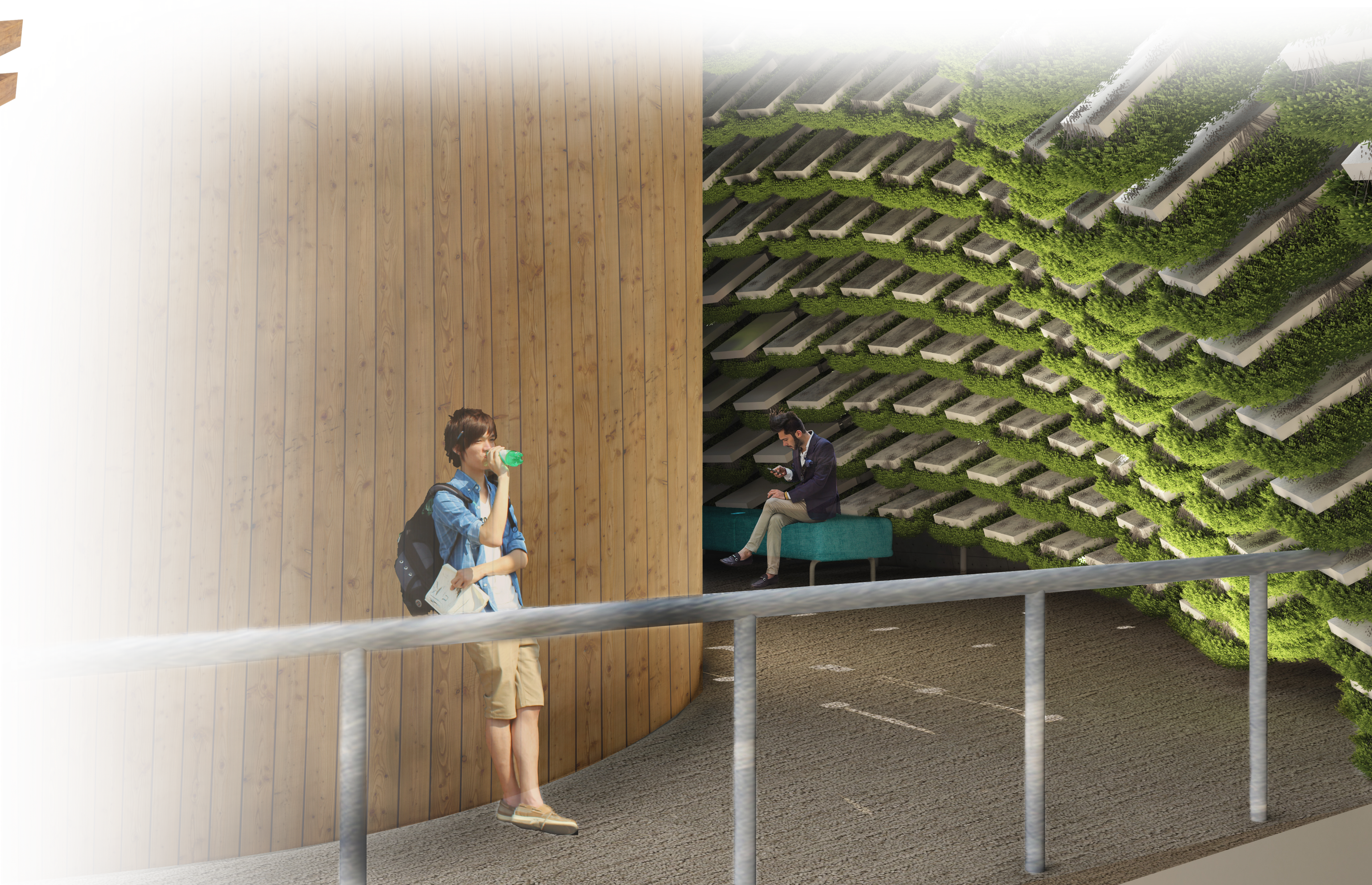
Longitudinal Section
Scale: 1/32"=1'-0"



Transverse Section
Scale: 1/32"=1'-0"



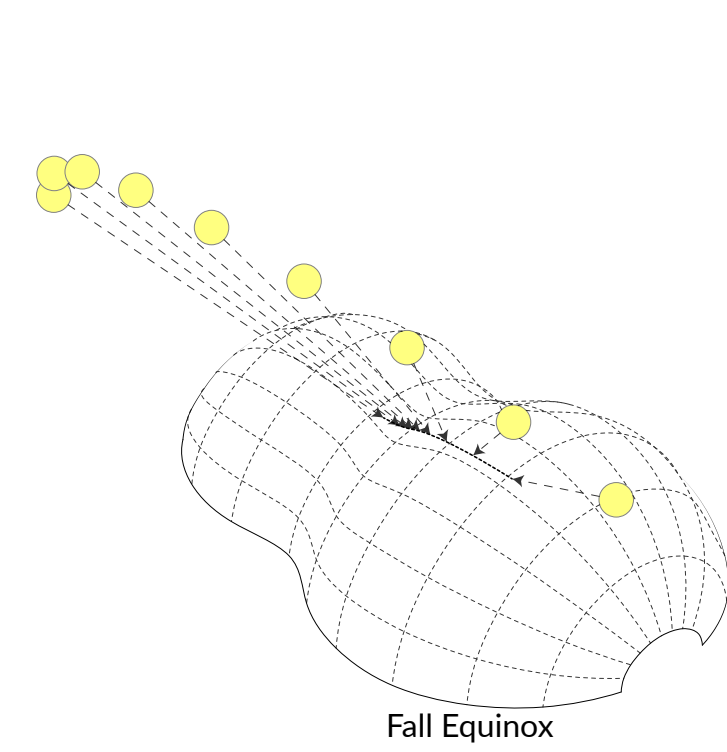
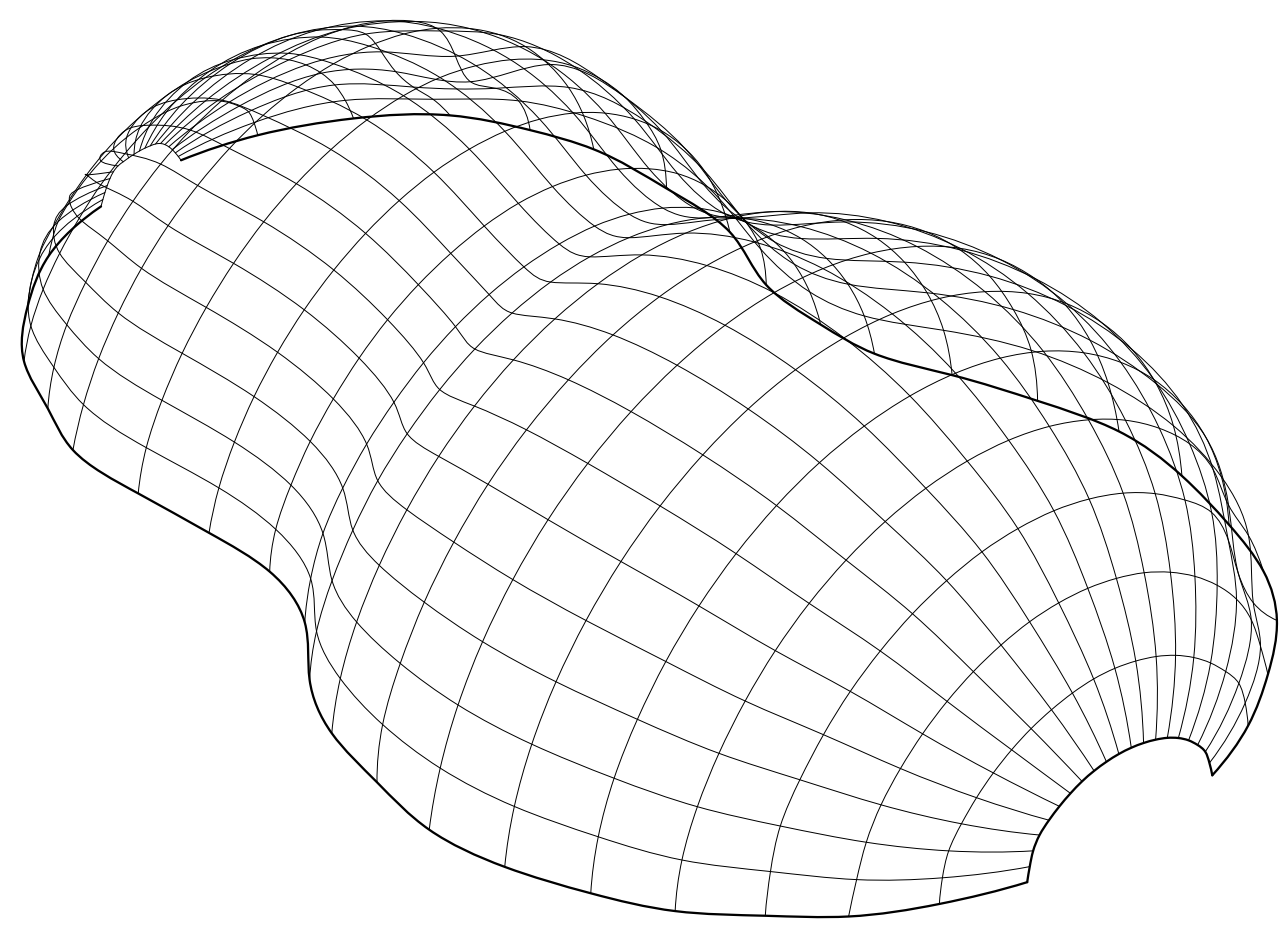
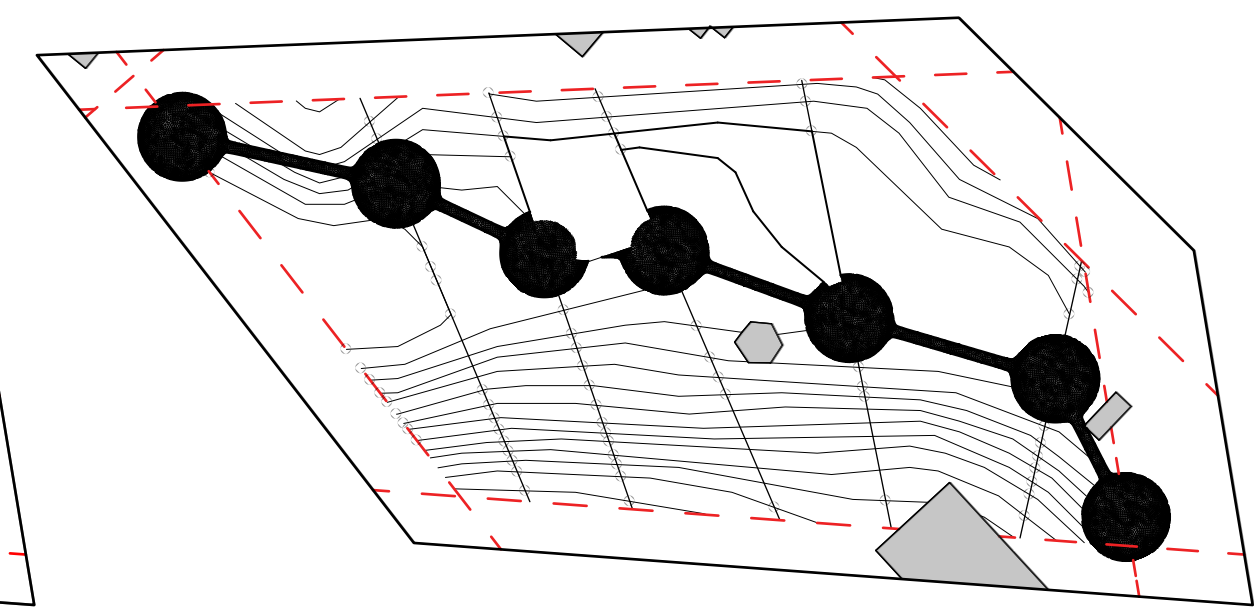
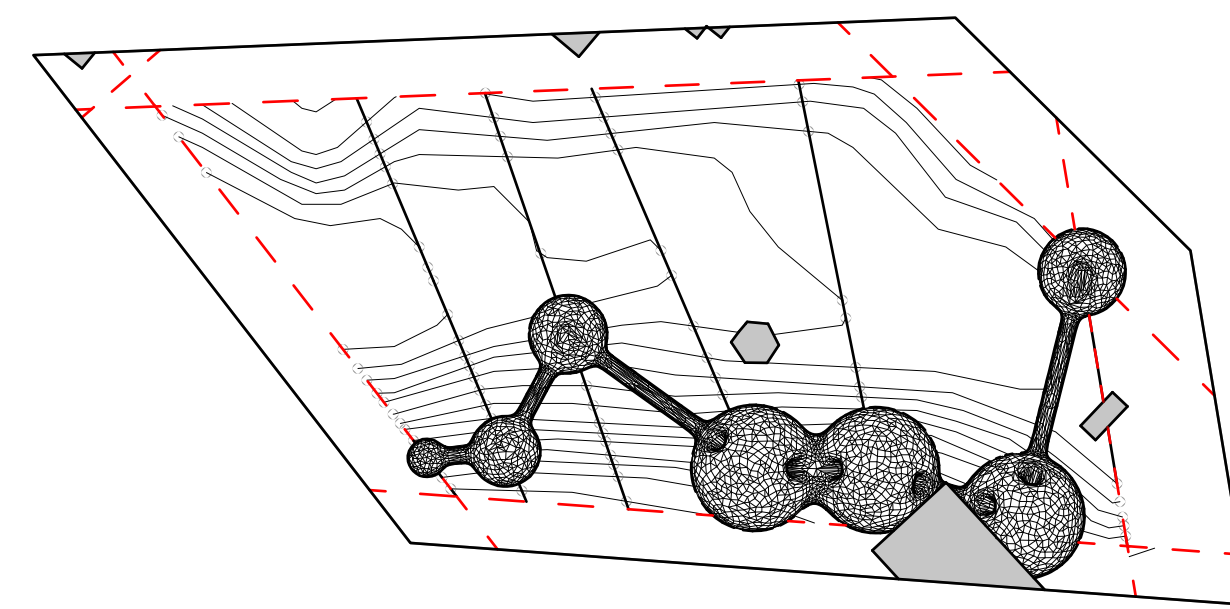
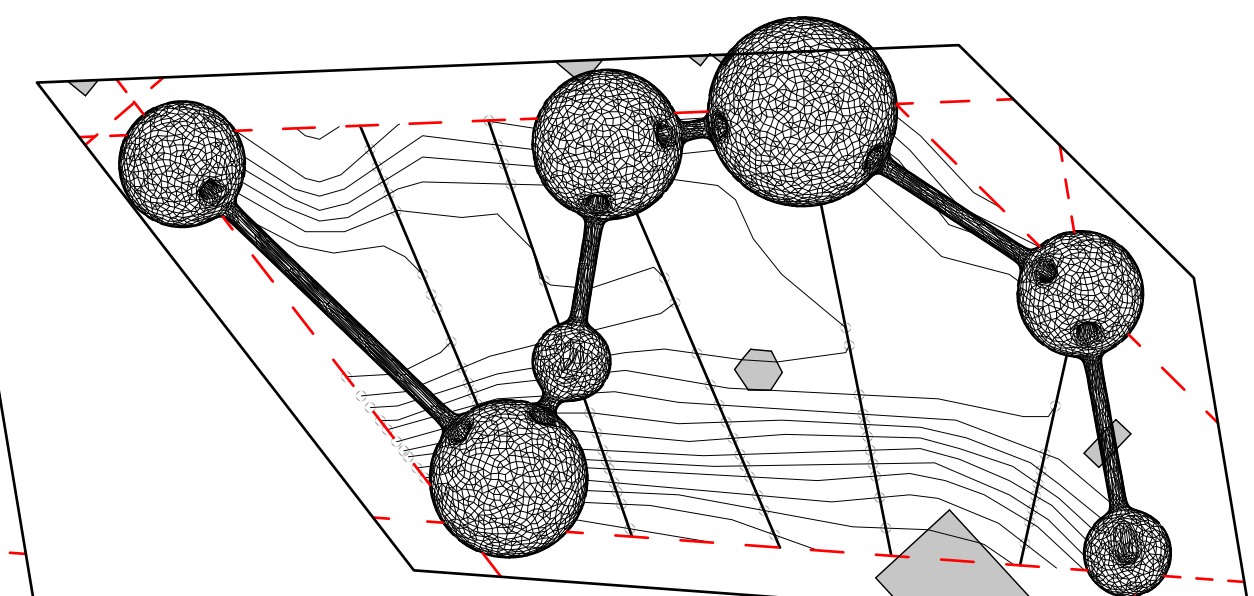
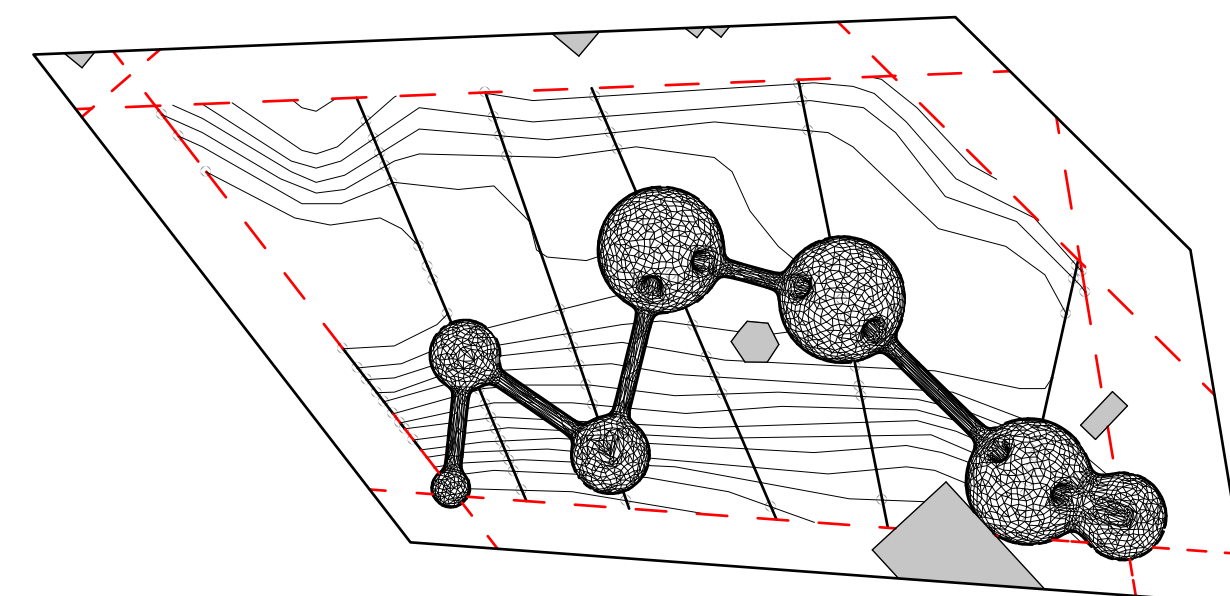
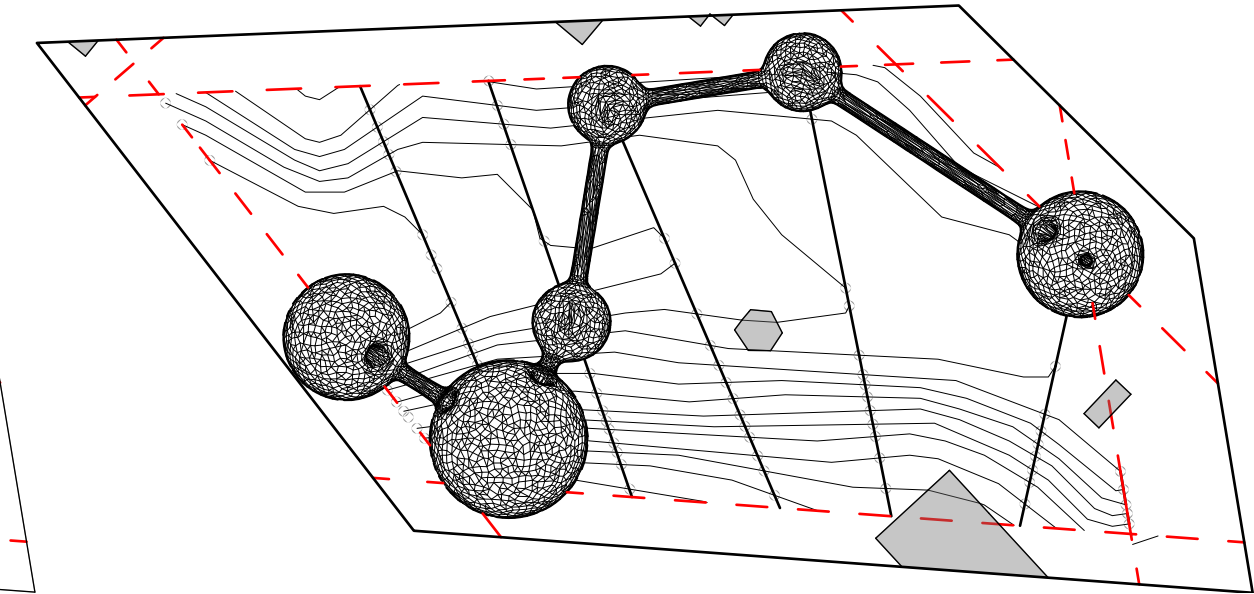
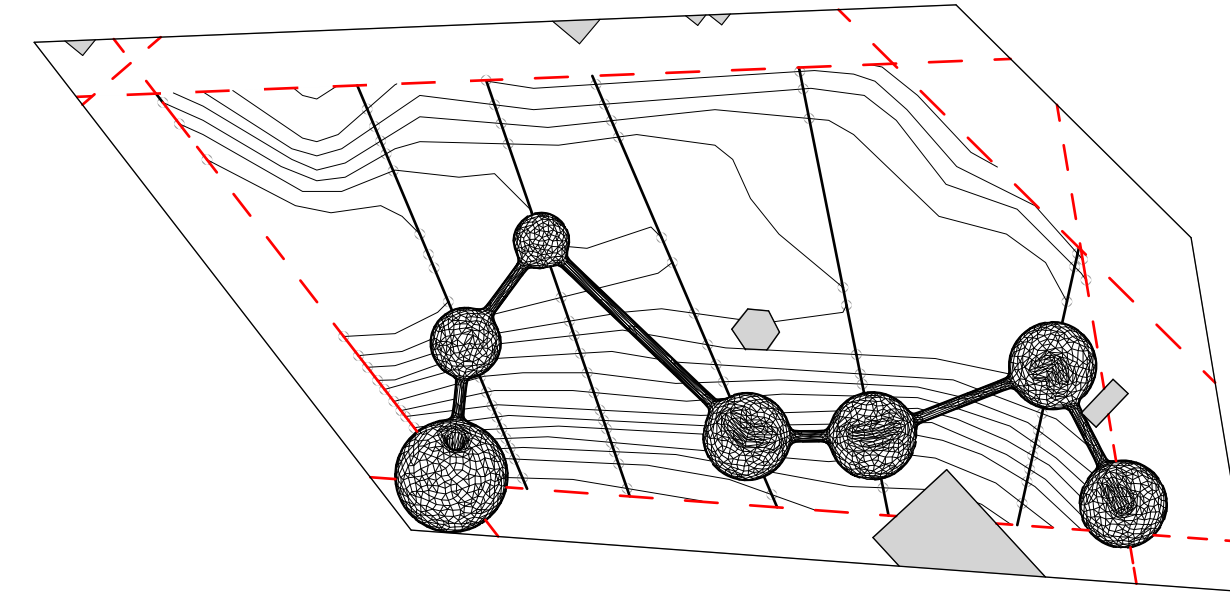
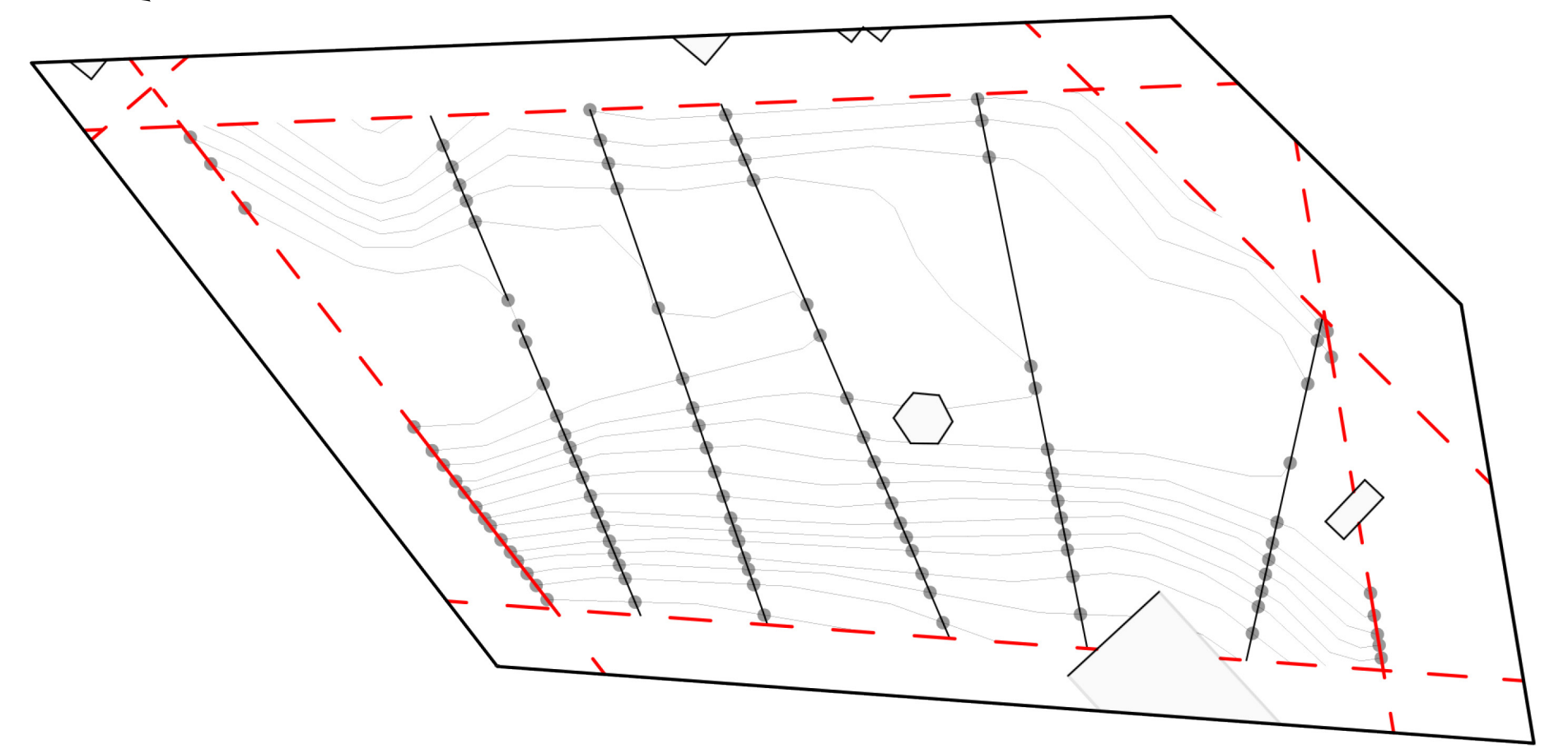
Fragment Structure
Scale: 3/4"=1'-0"



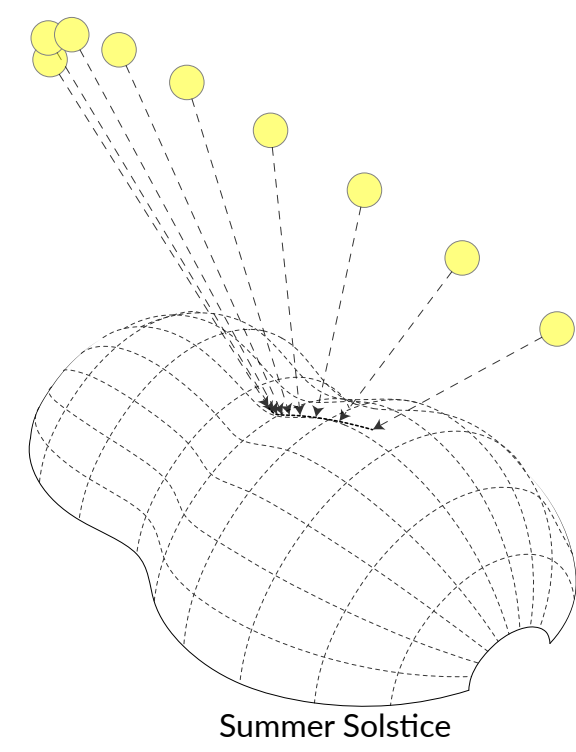
Cellular Morphology

The kinetic facade is used as a method of reemphasizing the action and stages of **cellular division**. With these cells around the site acting as support for existing programmatic elements, the main cell, the library is constantly evolving to its surrounding environment. This facade is responsive towards daylight and moves these blocks out to let in **indirect sunlight**. These blocks also contain vegetation that engage with the sun using Photosynthesis and provides fresh oxygen inside the library. This results in a cell constantly in motion, **evolving**, and adapting to its environment.

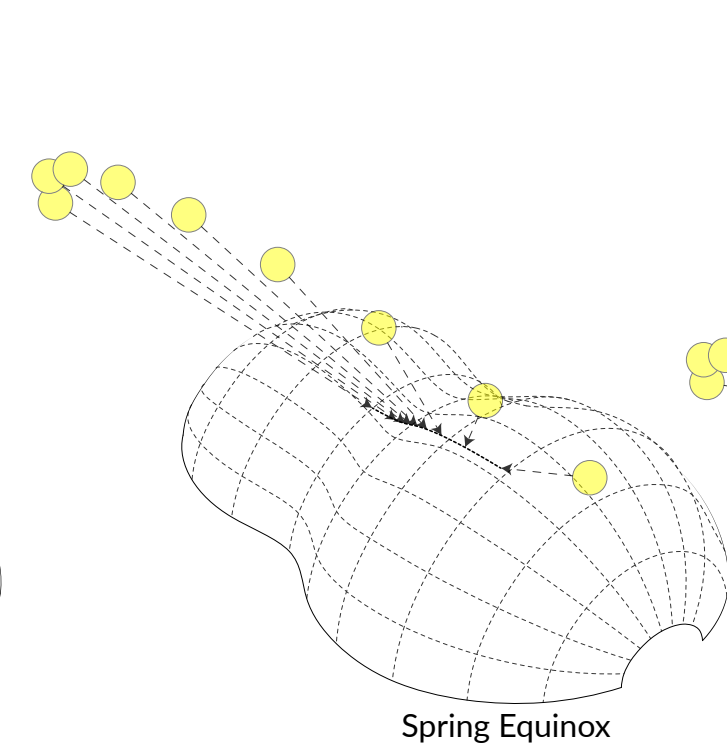
The shape of the facade parts are created by utilizing the subdivision of the surface that would be affected by the sun. These blocks would then act as "pixels" as a way to recreate the act of cellular division.



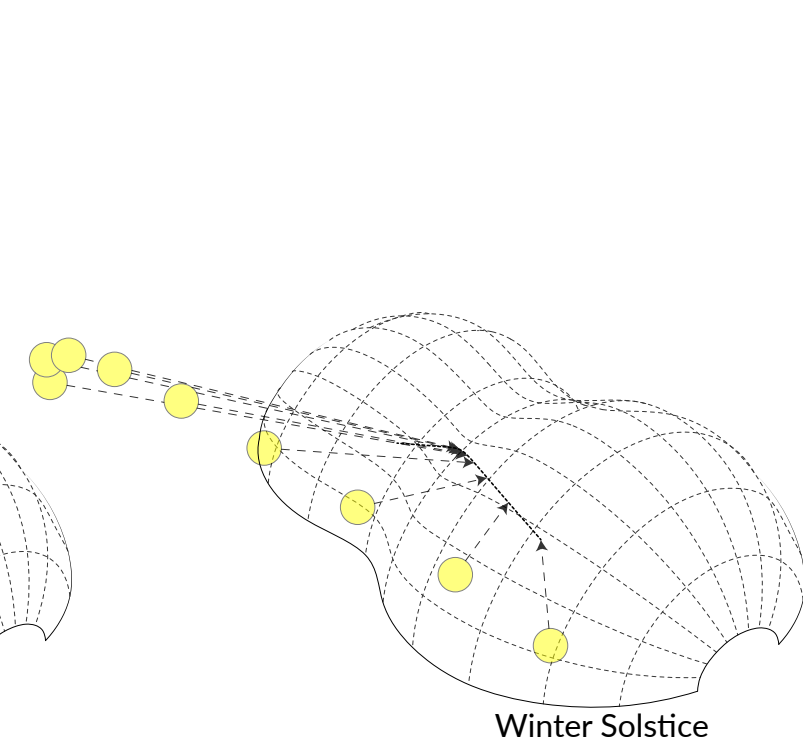
Fall Equinox



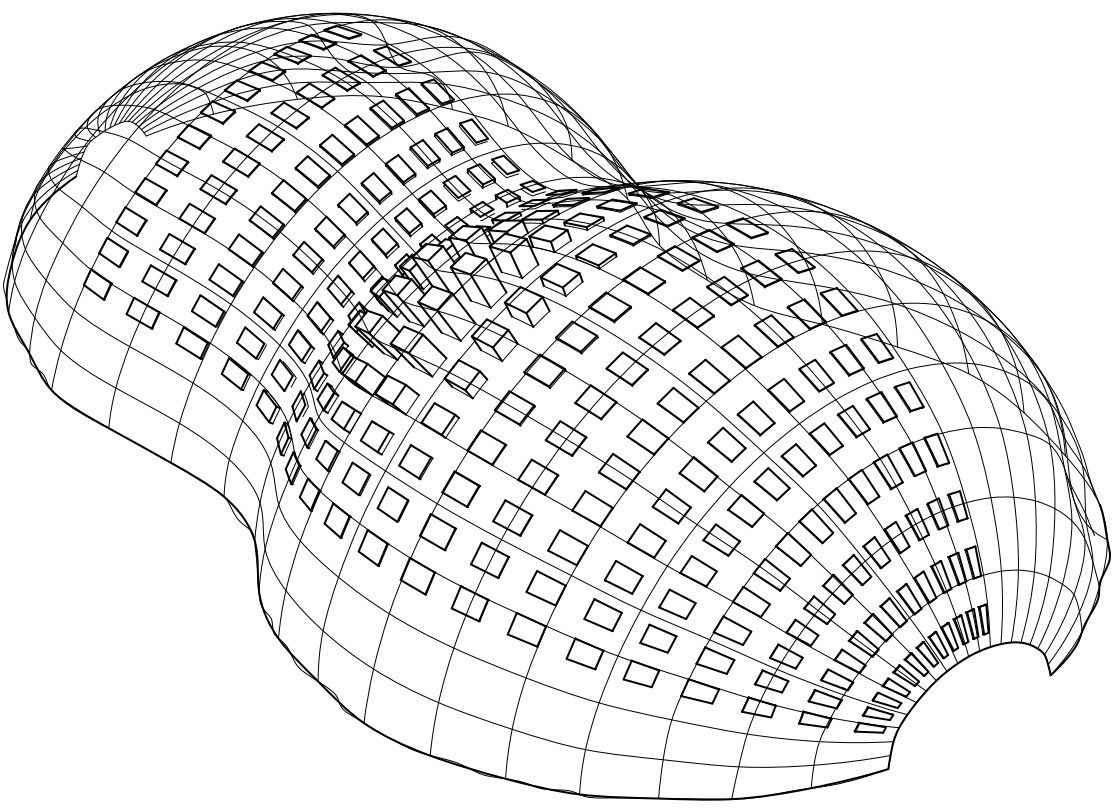
Summer Solstice



Spring Equinox

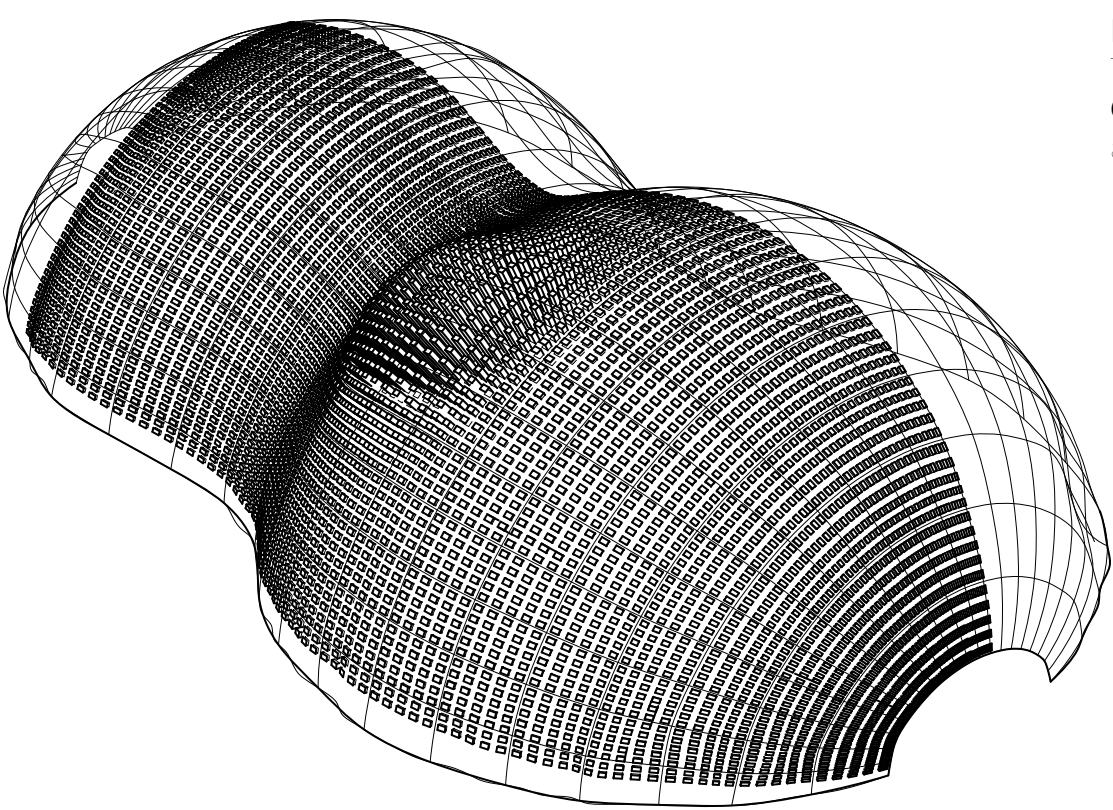


Winter Solstice



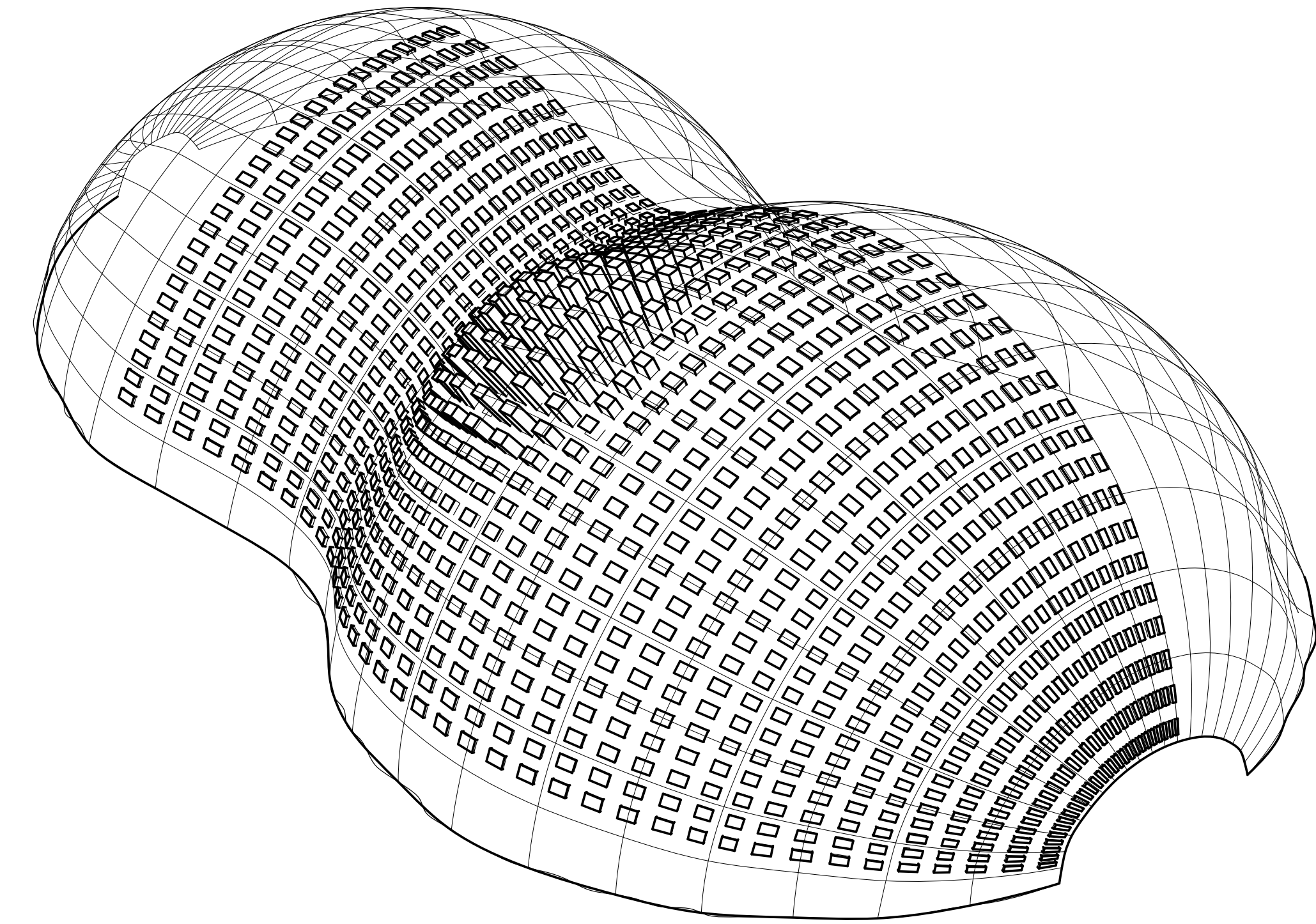
Iteration 1: Large Subdivision of Surface

The larger subdivision was better for larger vegetation but the definition of the Cellular division was **lost in scale**.



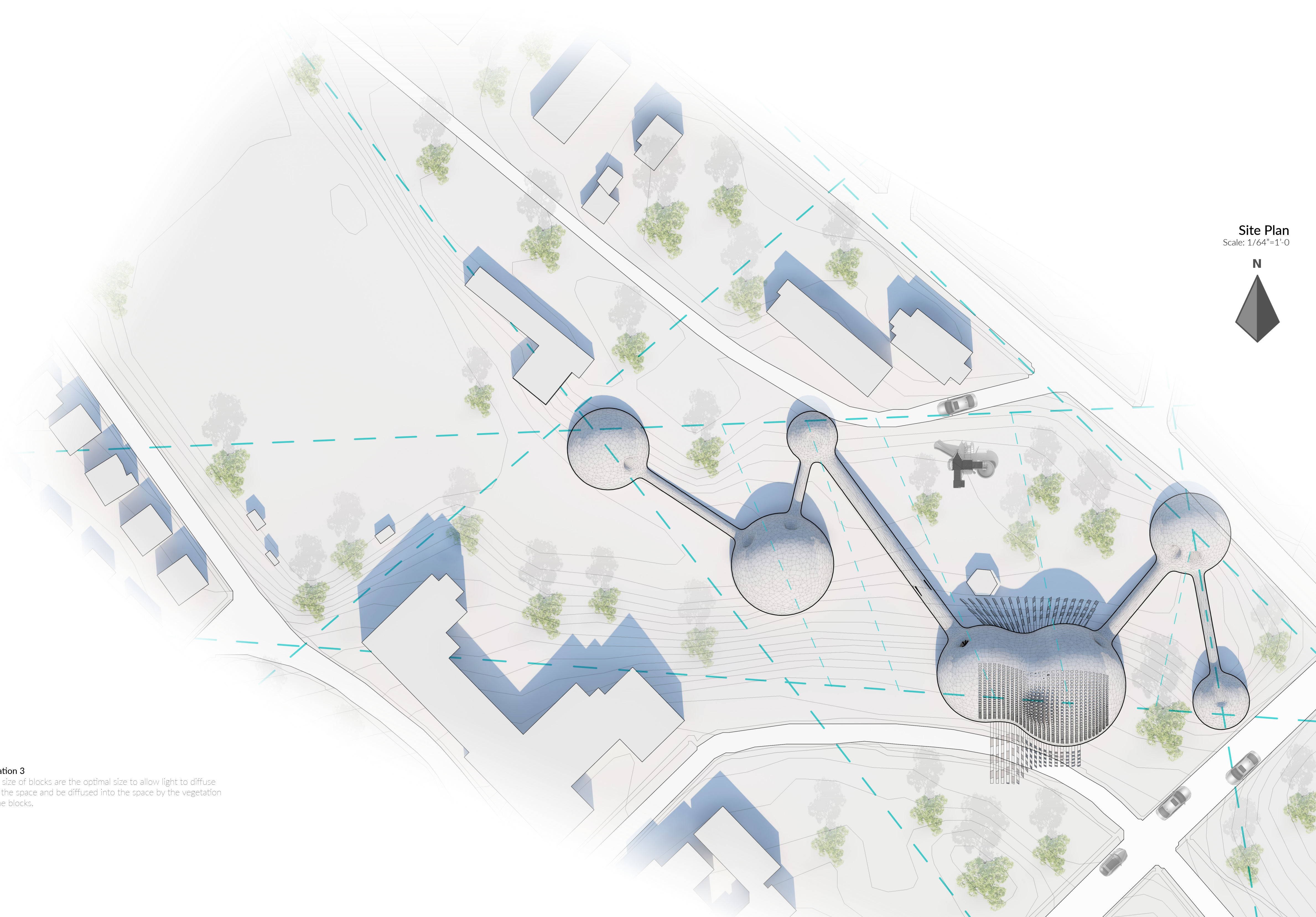
Iteration 2

The smaller subdivision **defined** the movement of the blocks and the idea of **Cellular division with great detail** but left no room for creating vegetation and allowing light into the space.



Iteration 3

This size of blocks are the optimal size to allow light to diffuse into the space and be diffused into the space by the vegetation in the blocks.



Site Plan
Scale: 1/64"=1'-0"

N

