

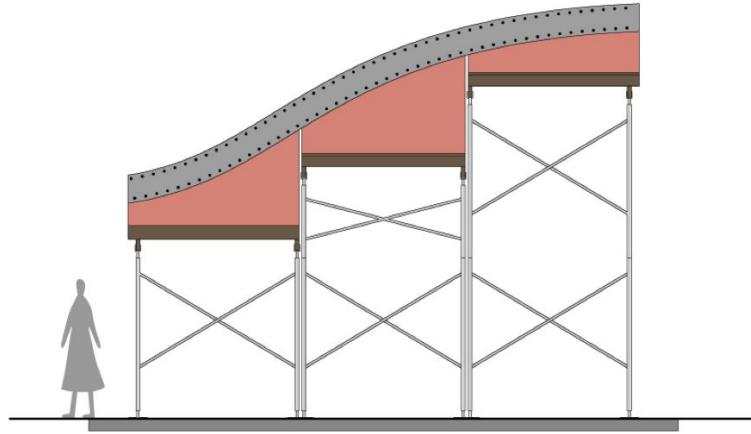


C O M P A S

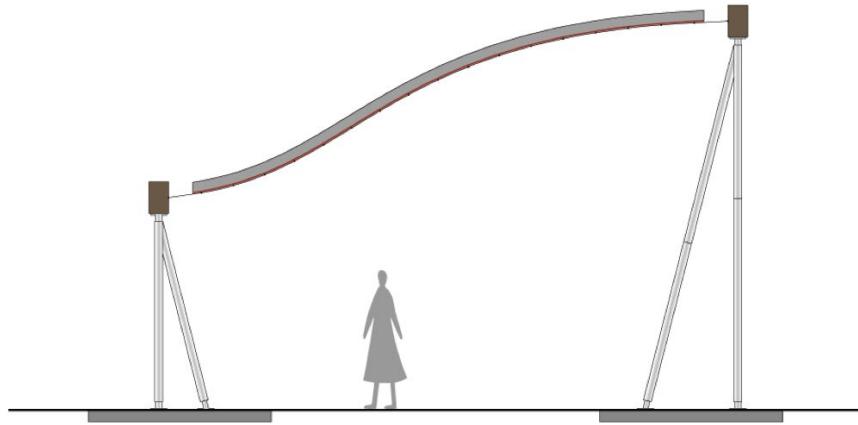
```
    if key in mesh.vertices():
        if key in fixed:
            continue

        p = key_xyz[key]
        nbrs = mesh.vertex_neighbours(key, ordered=True)
        c = center_of_mass_polygon([[key_xyz[nbr] for nb
```

Flexible Formworks



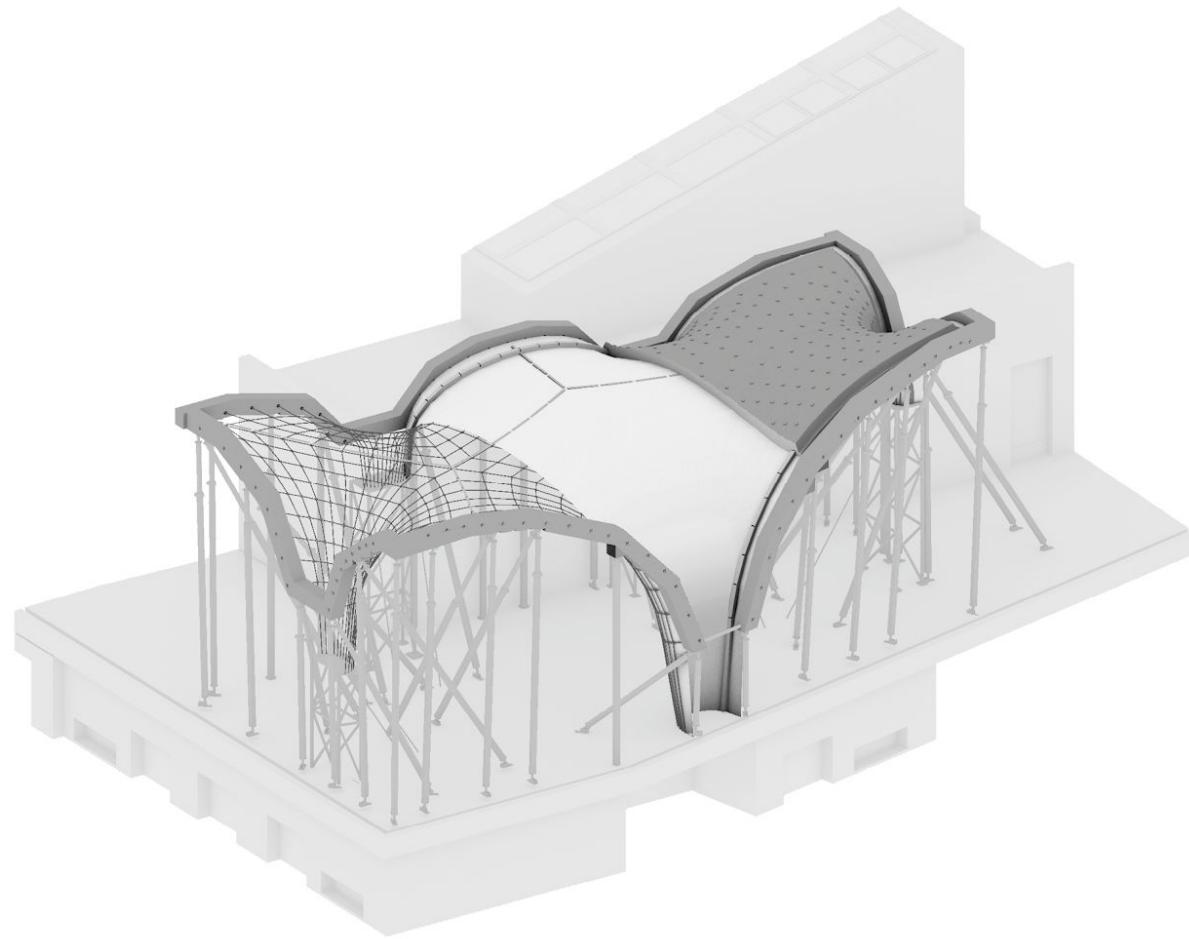
Traditional Formworks

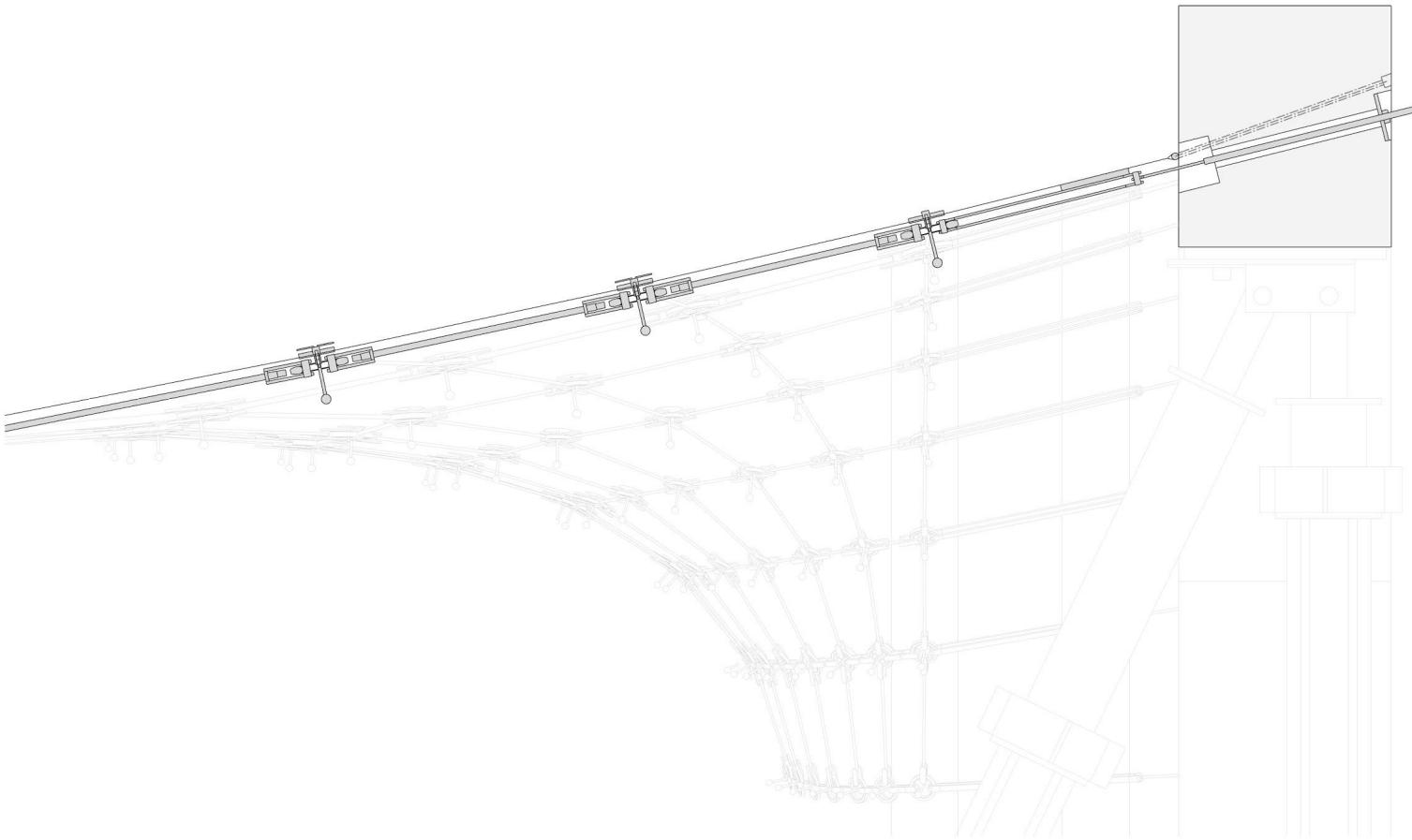


Flexible Formworks

HiLo





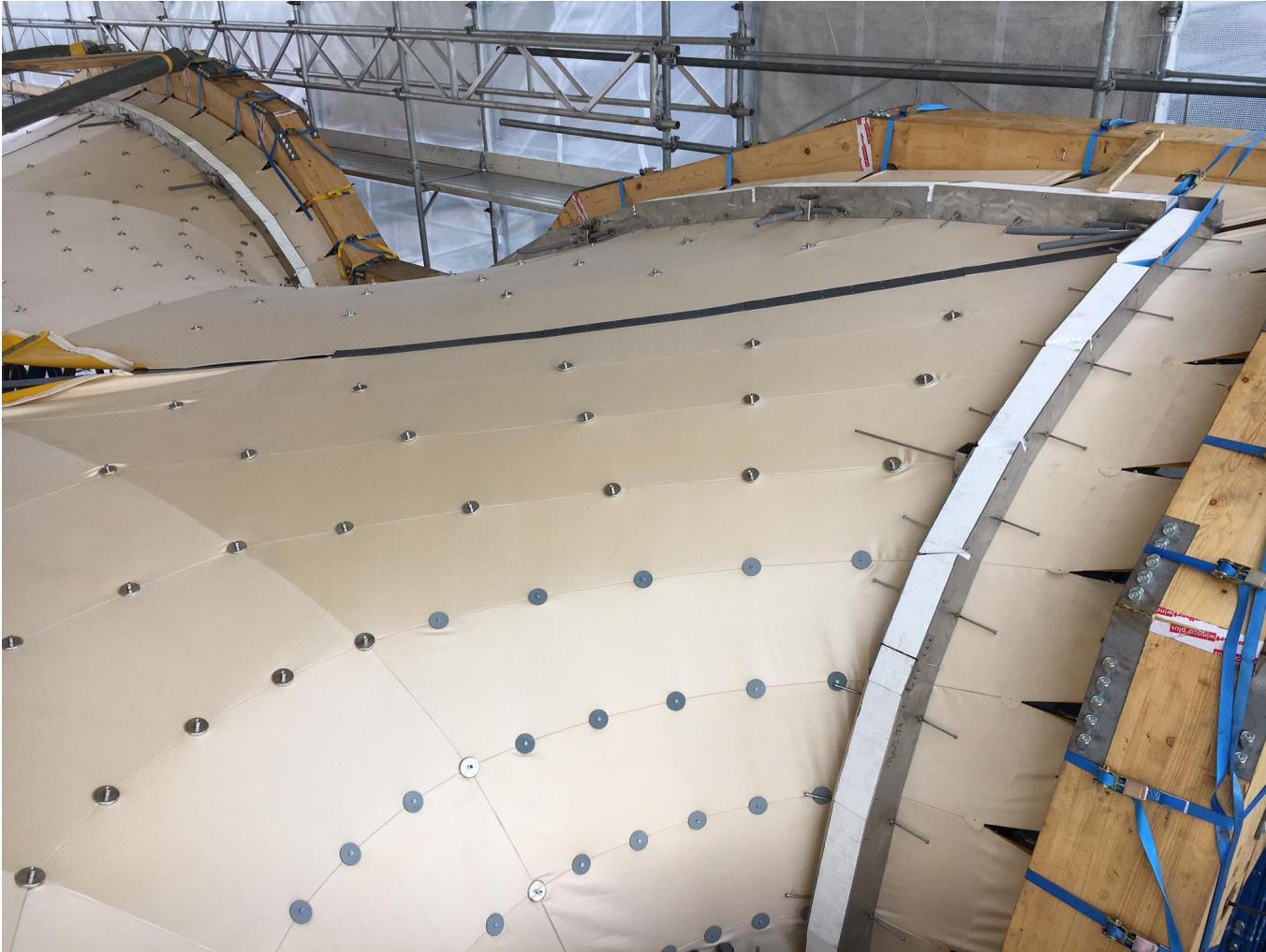




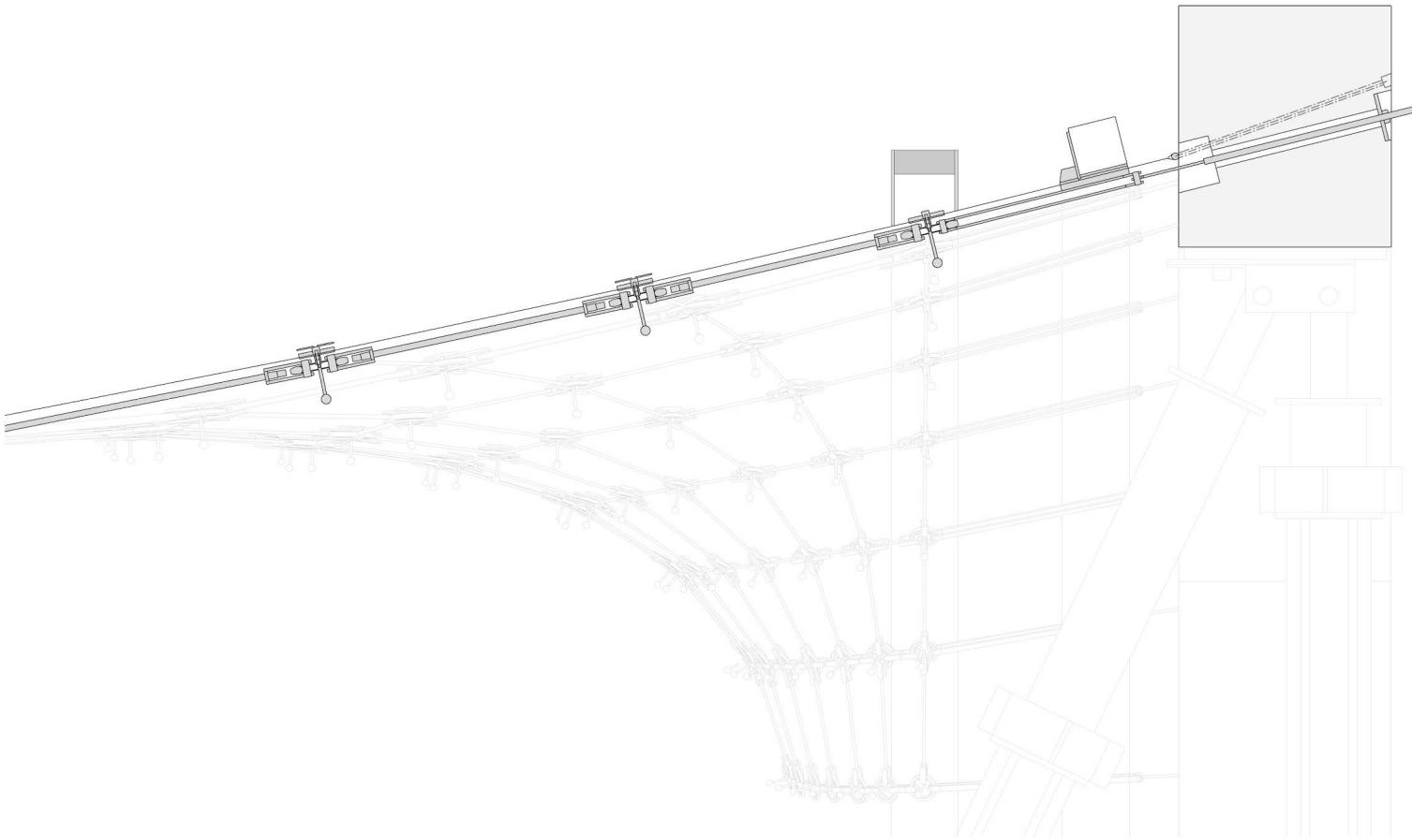


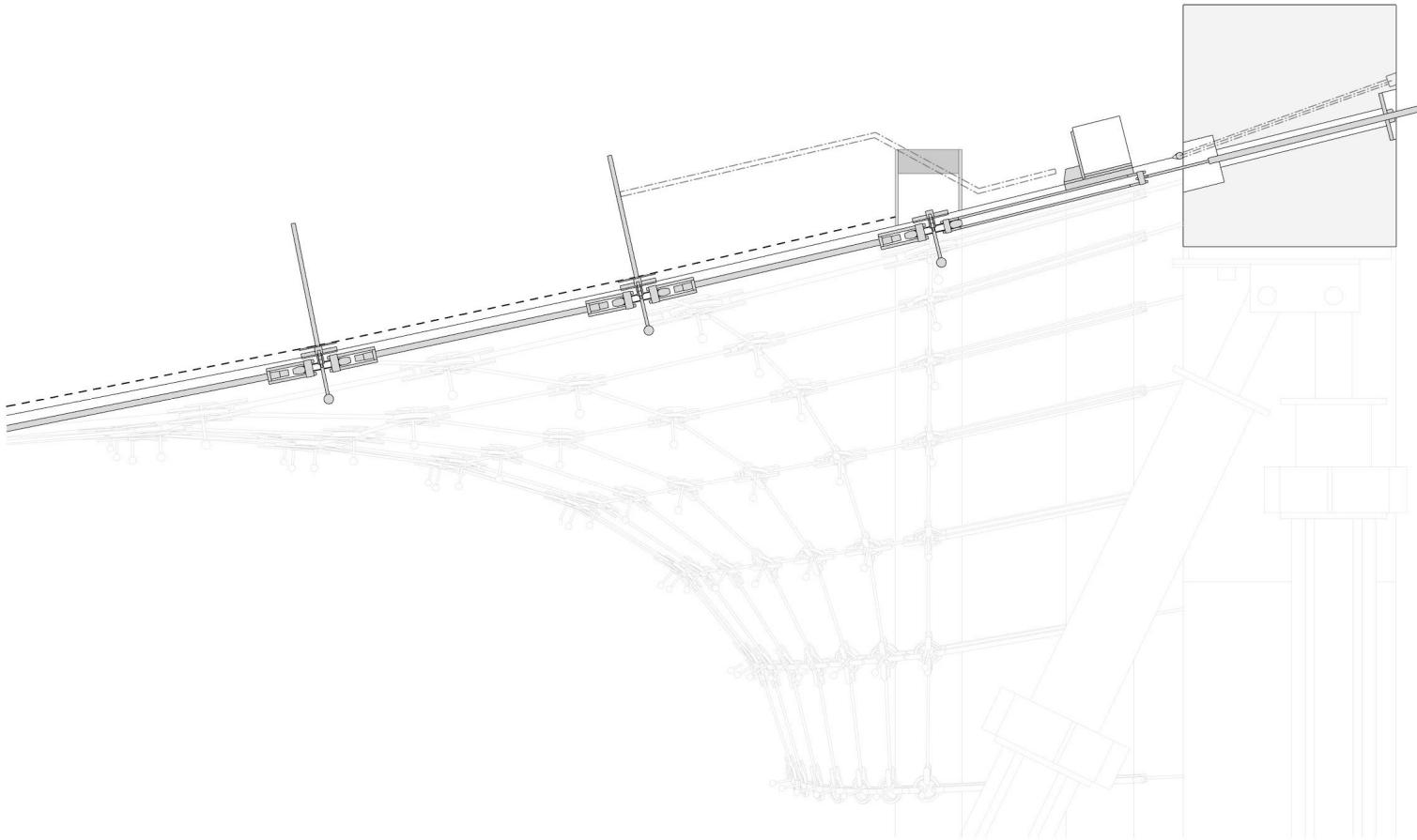


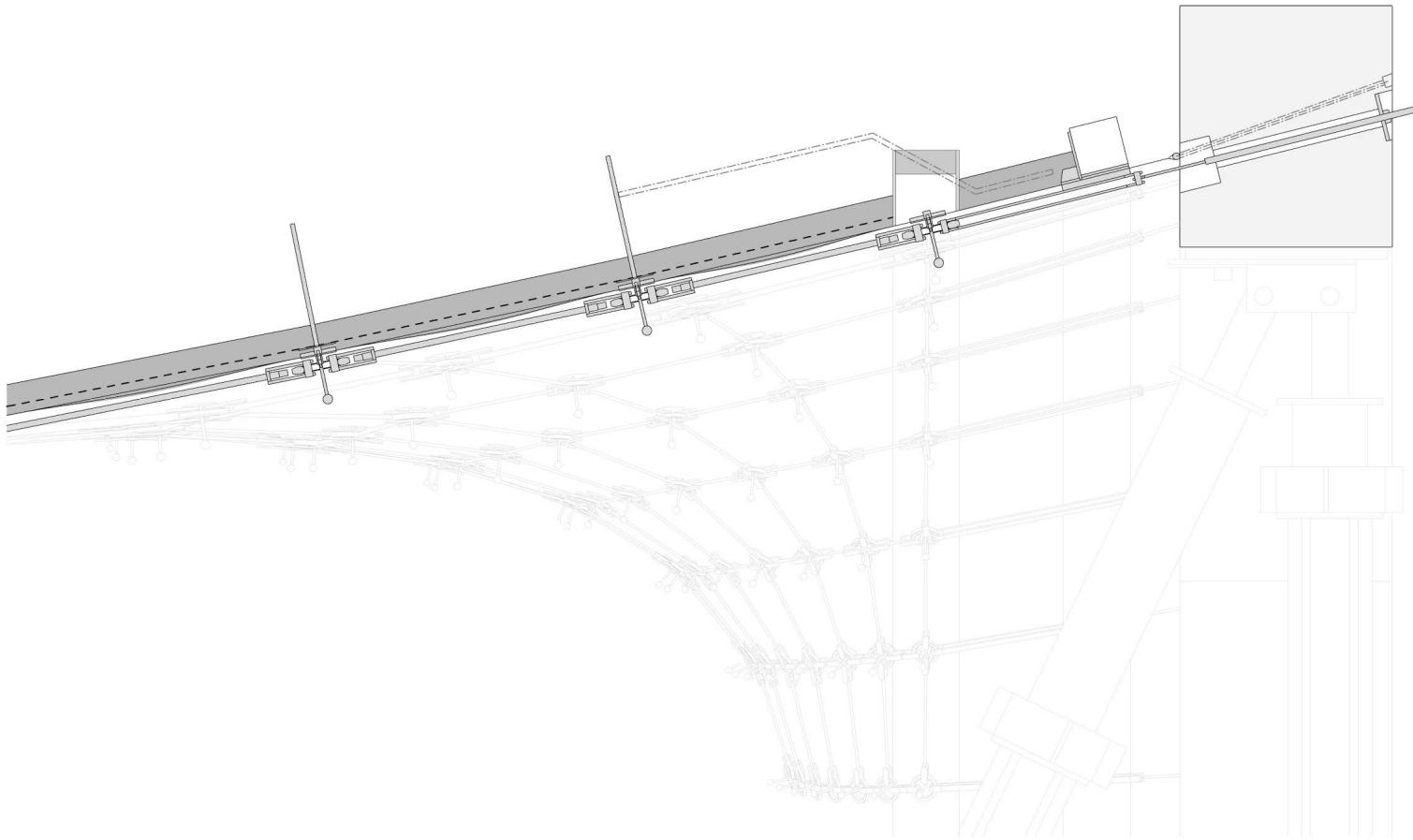


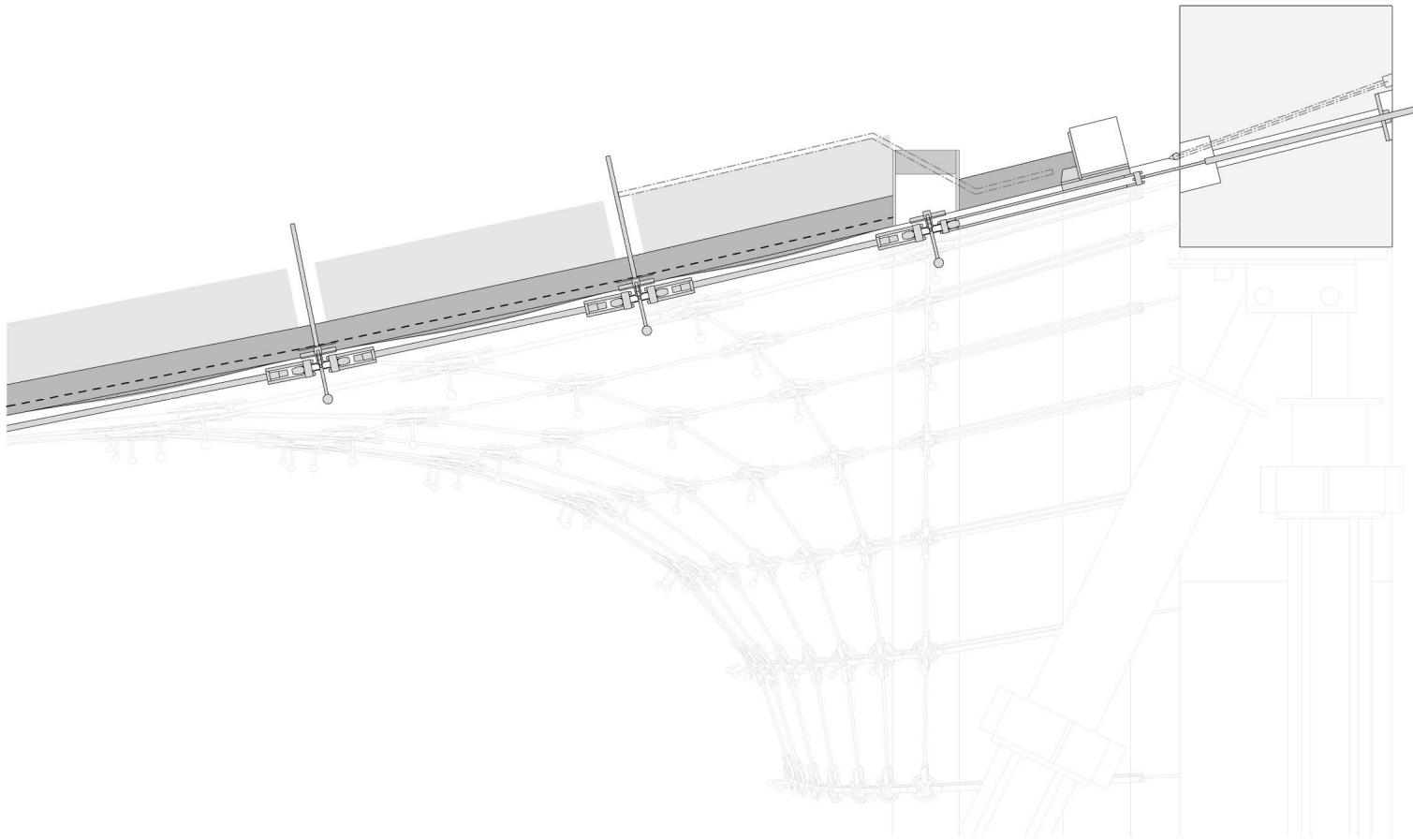


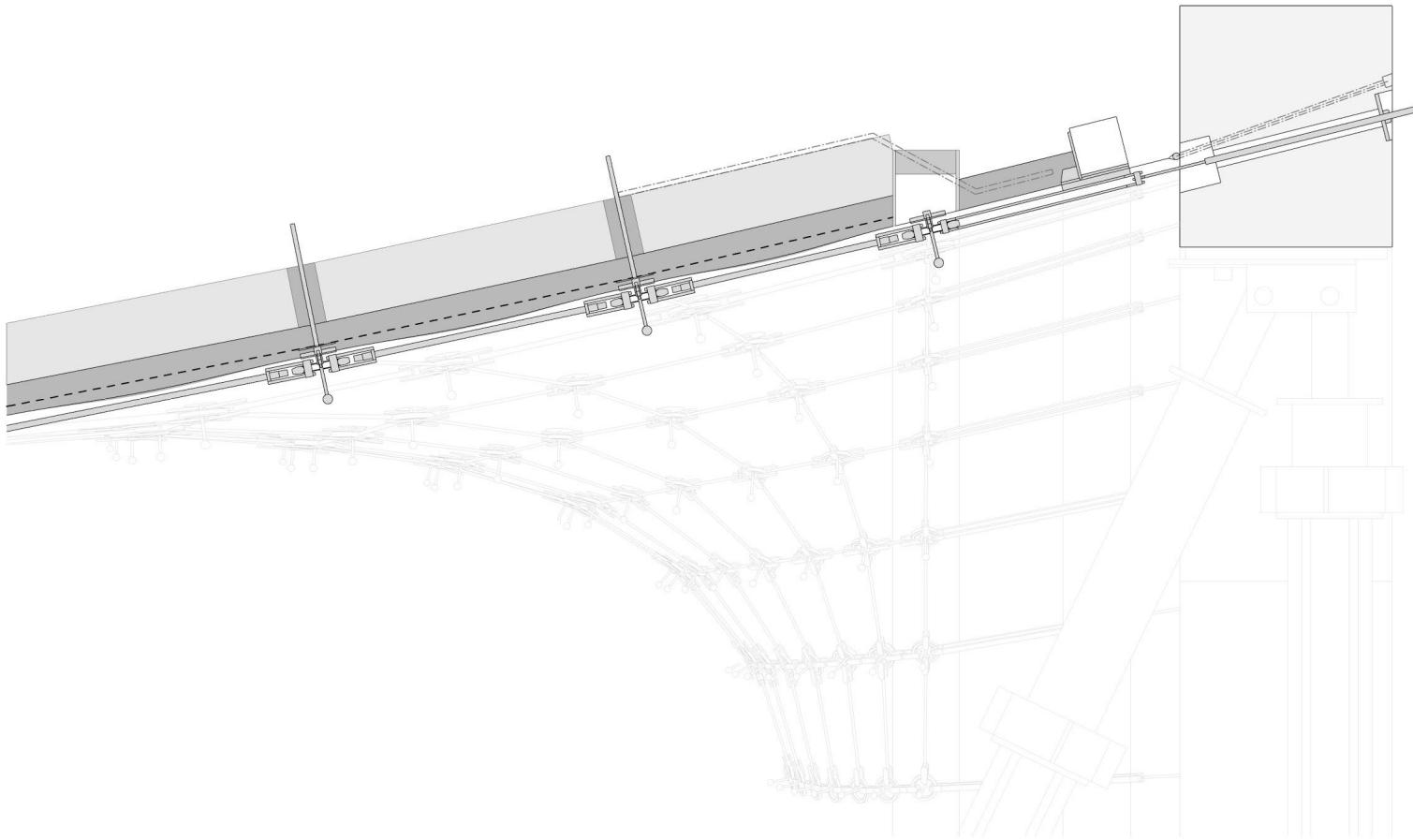


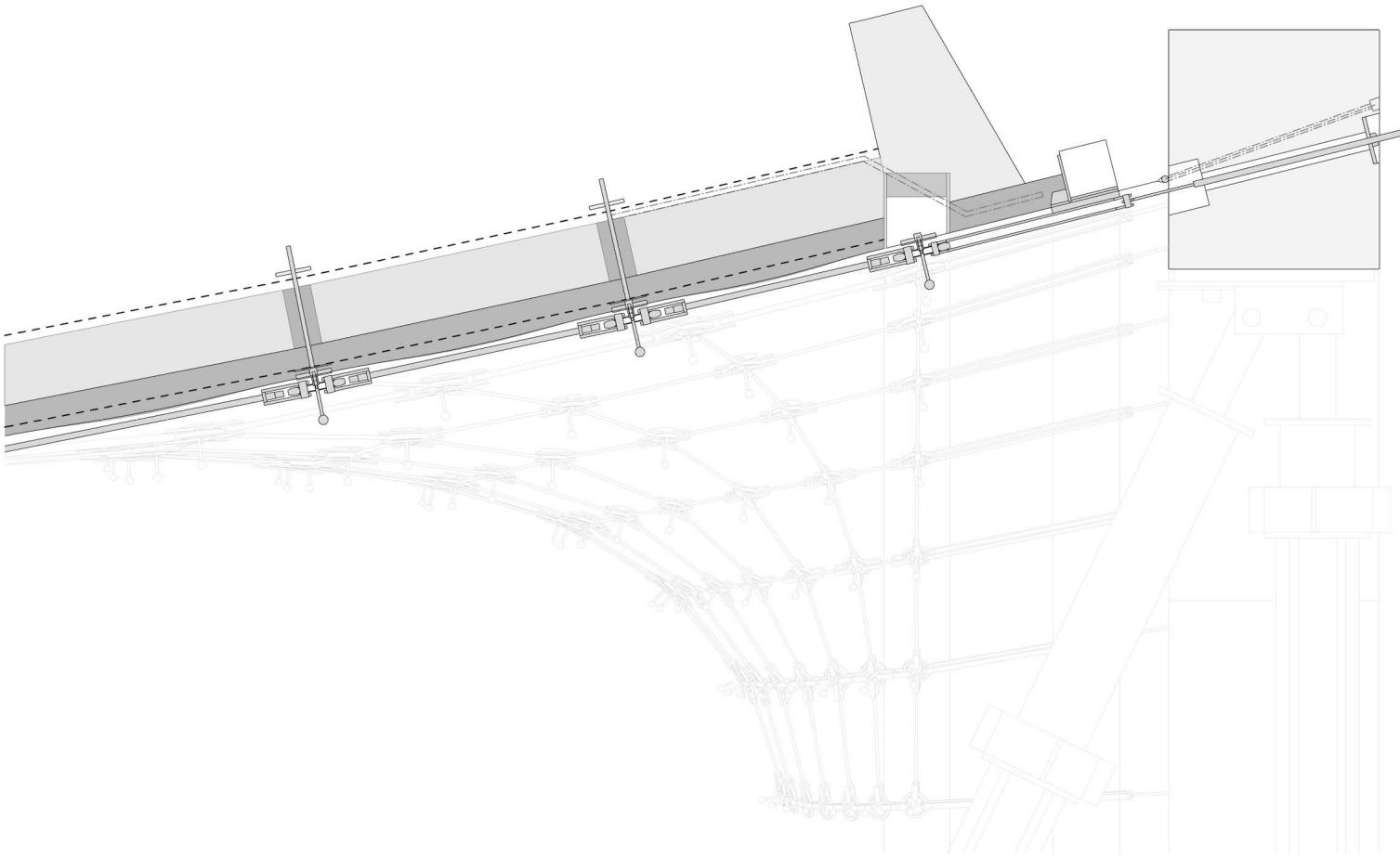


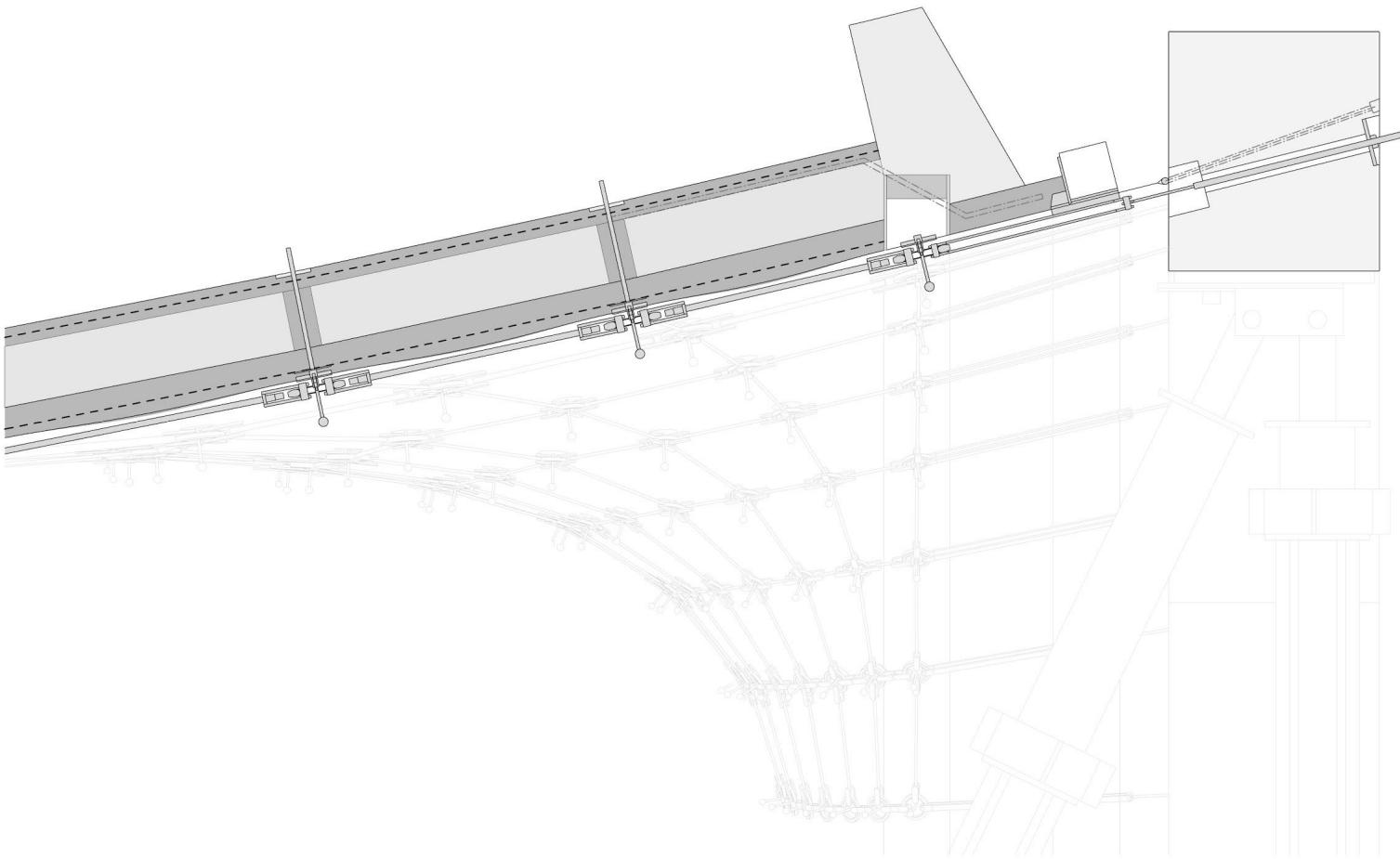


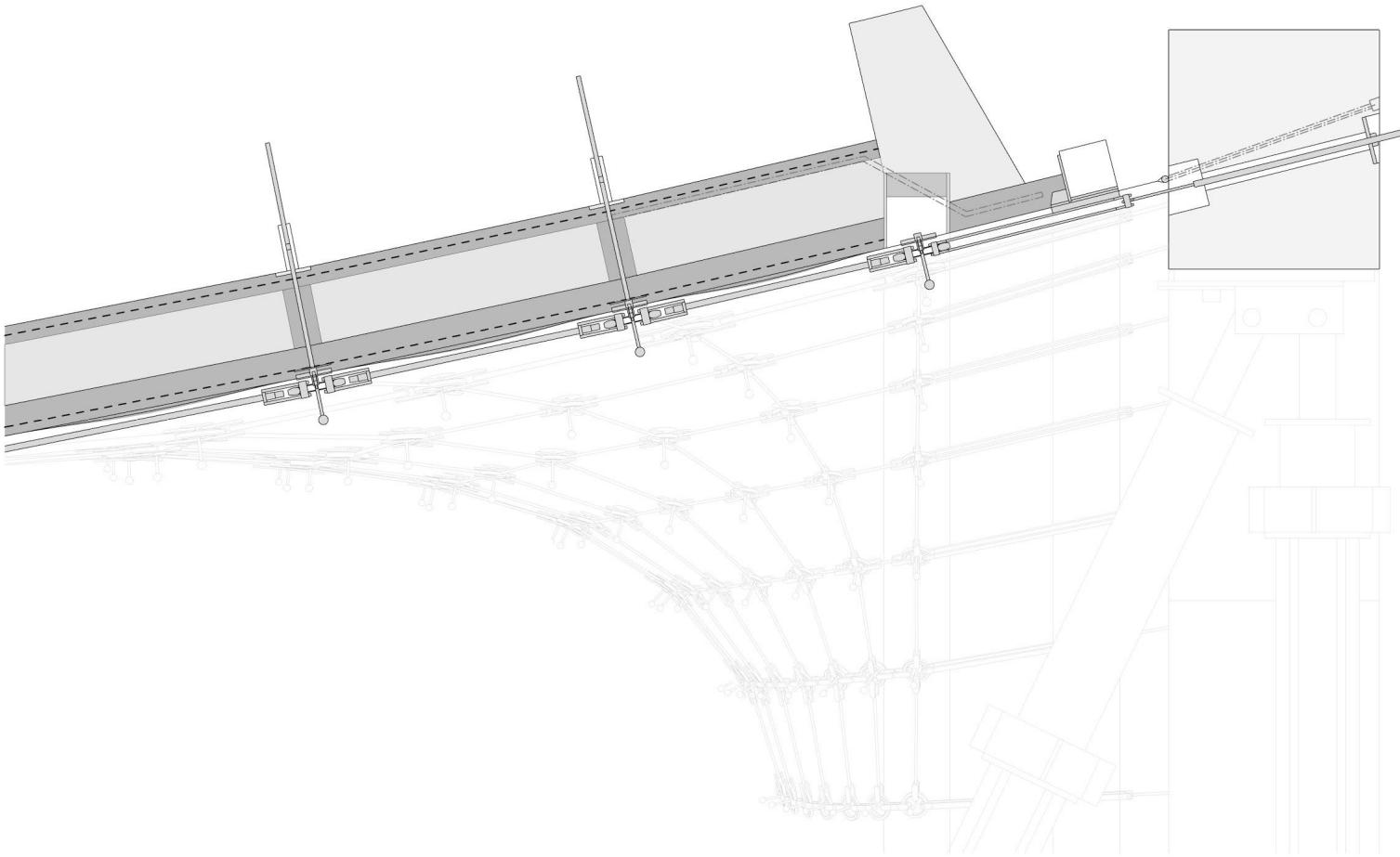


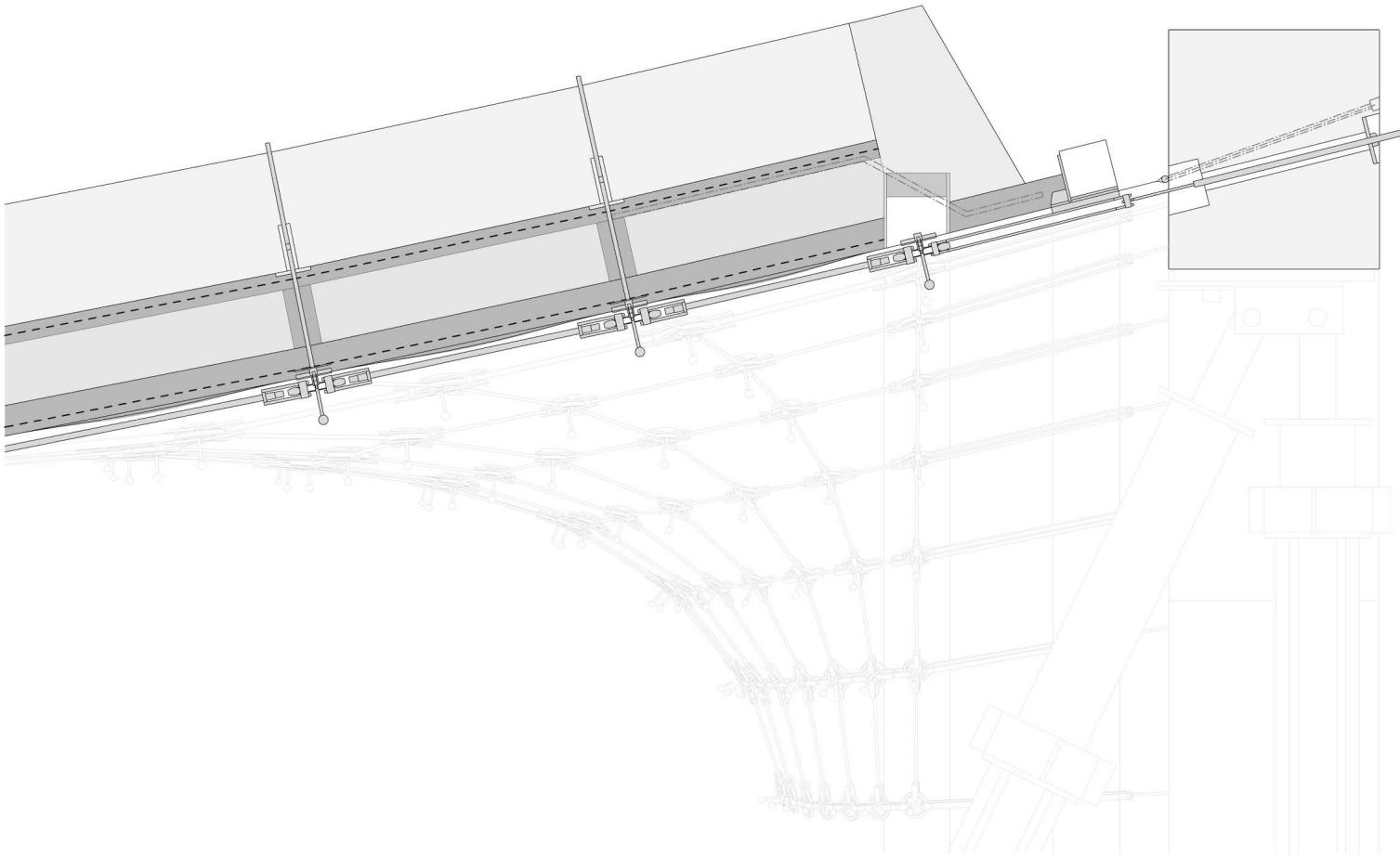


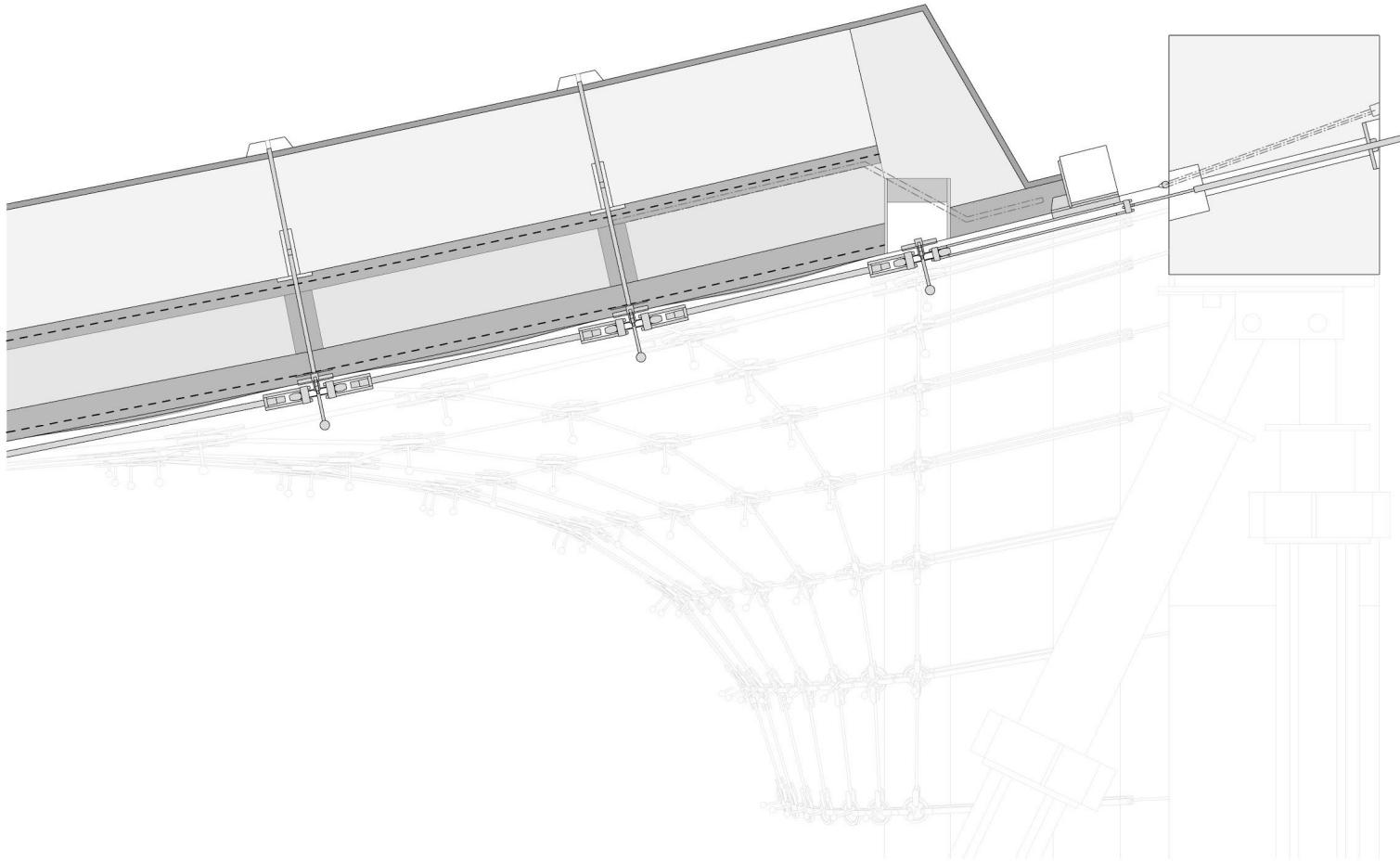


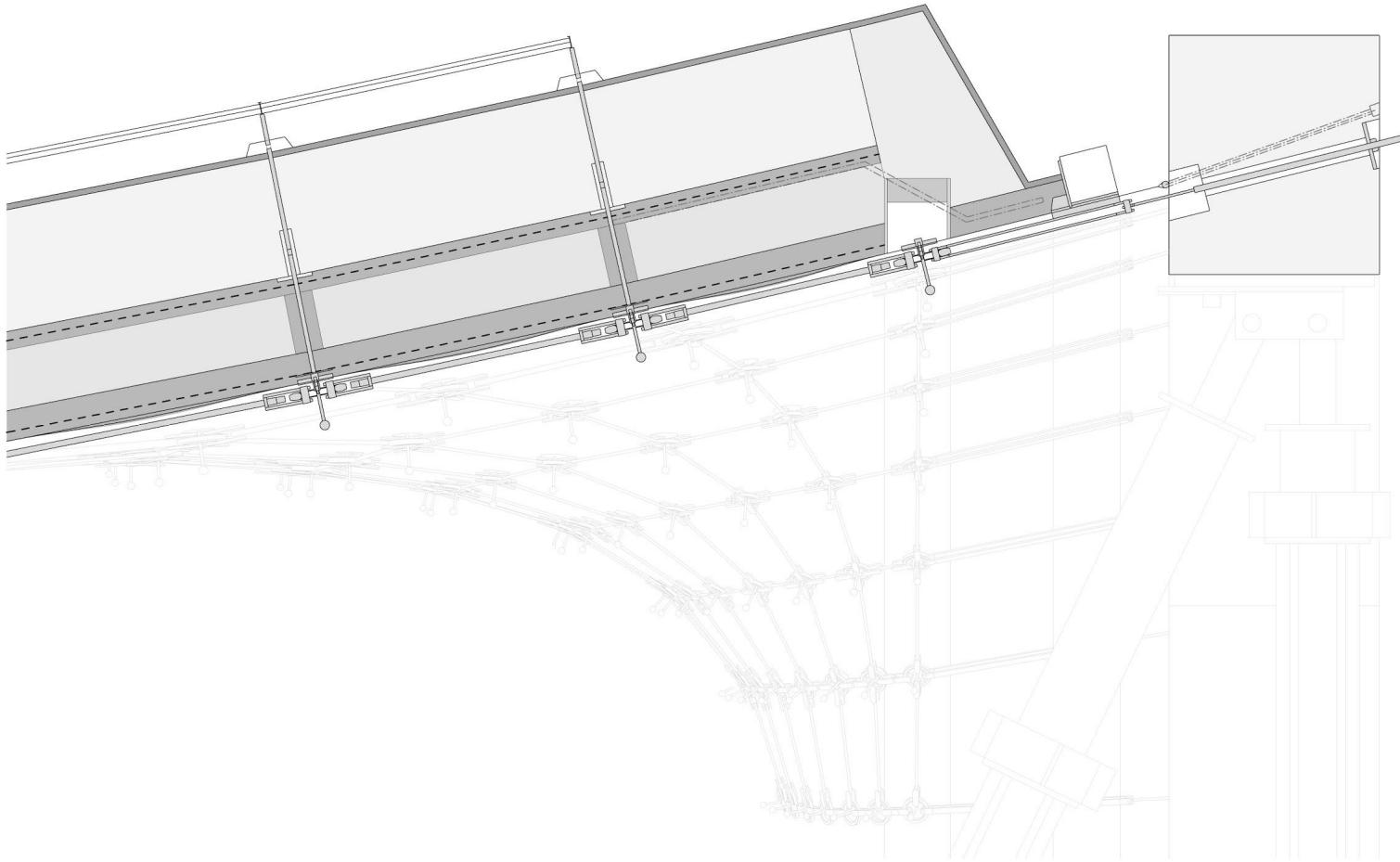


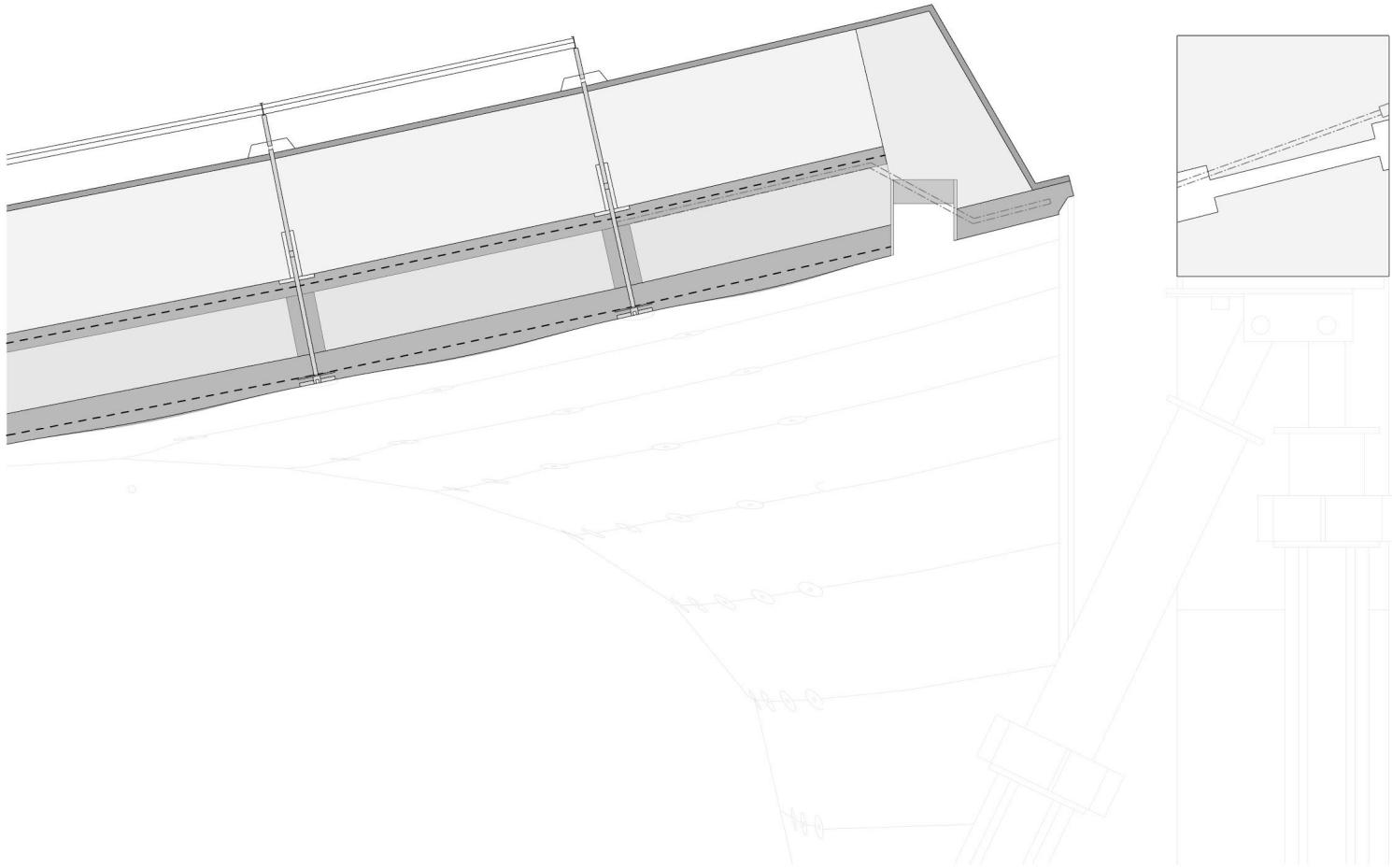


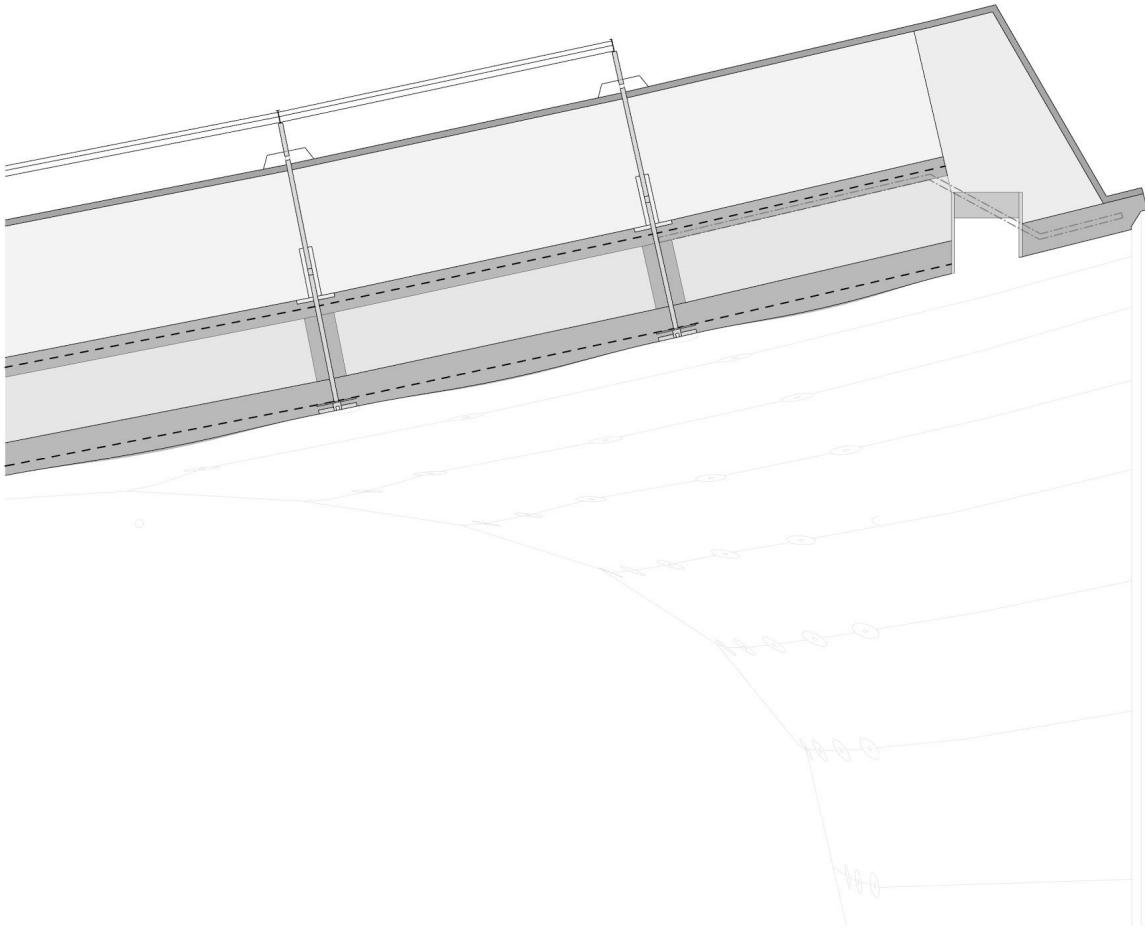


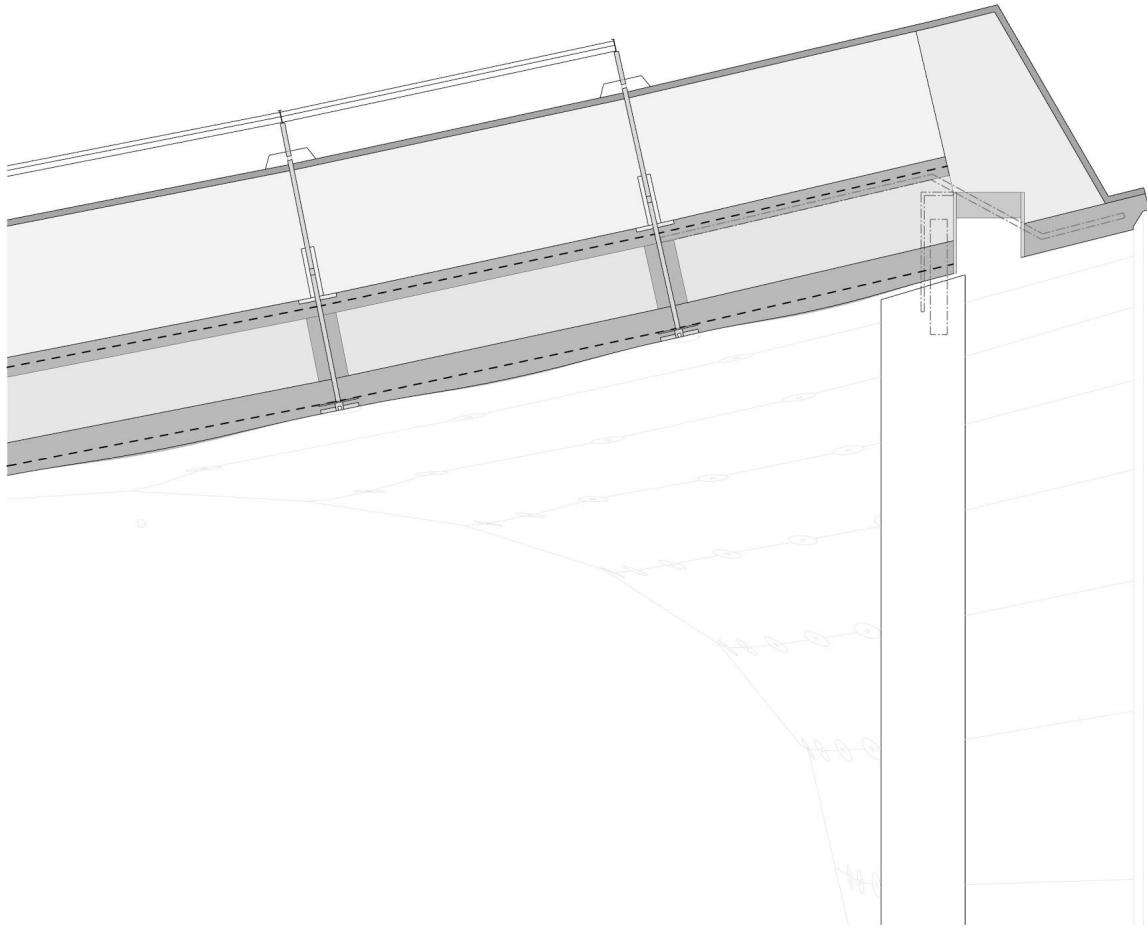


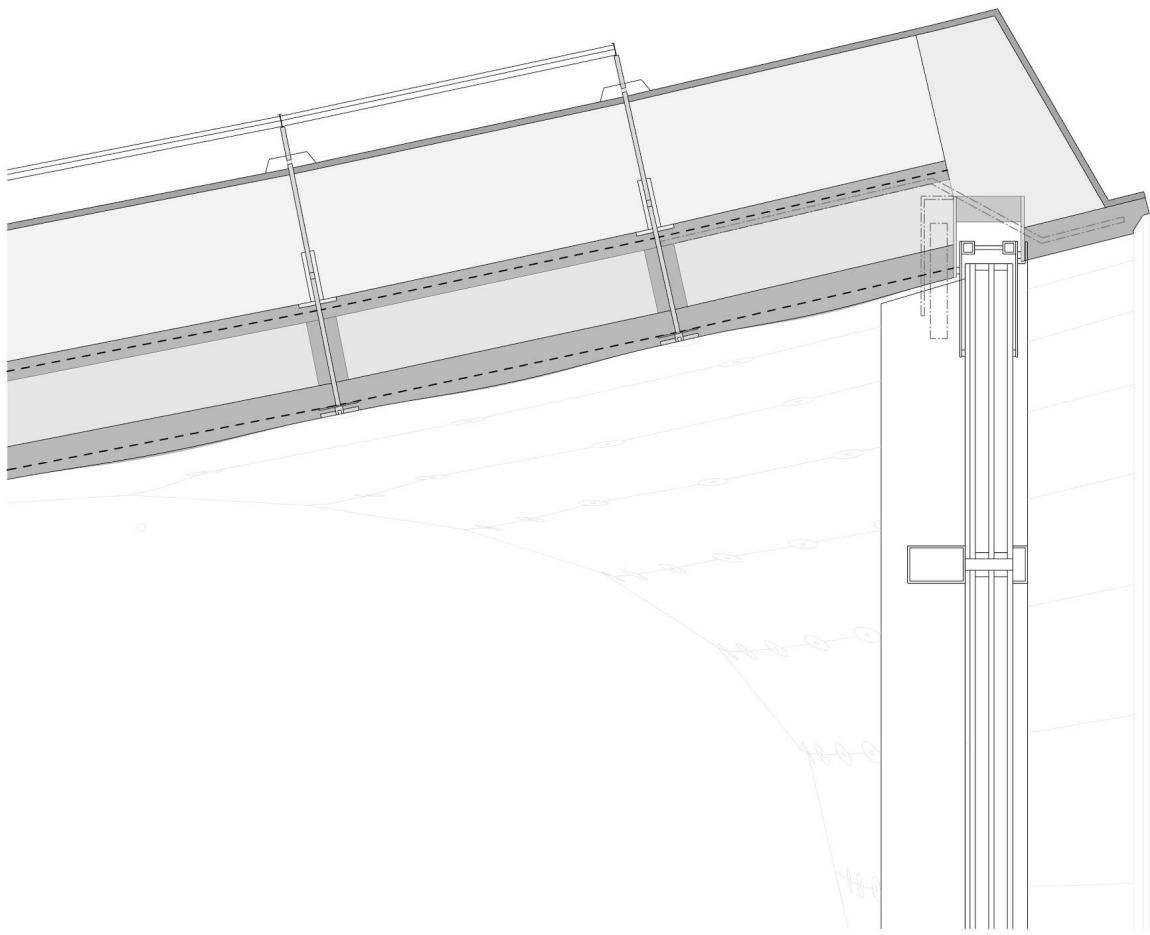












Texas

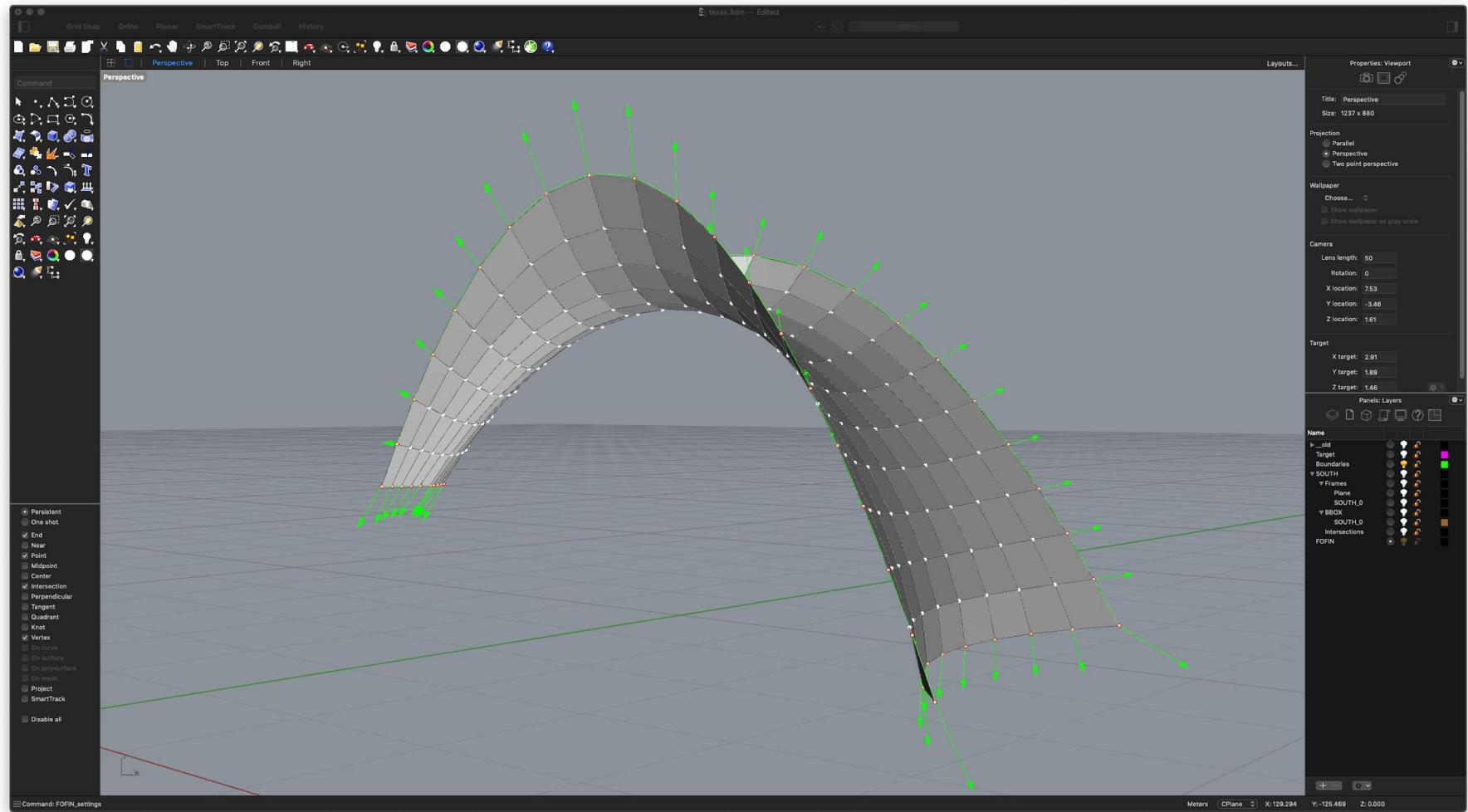


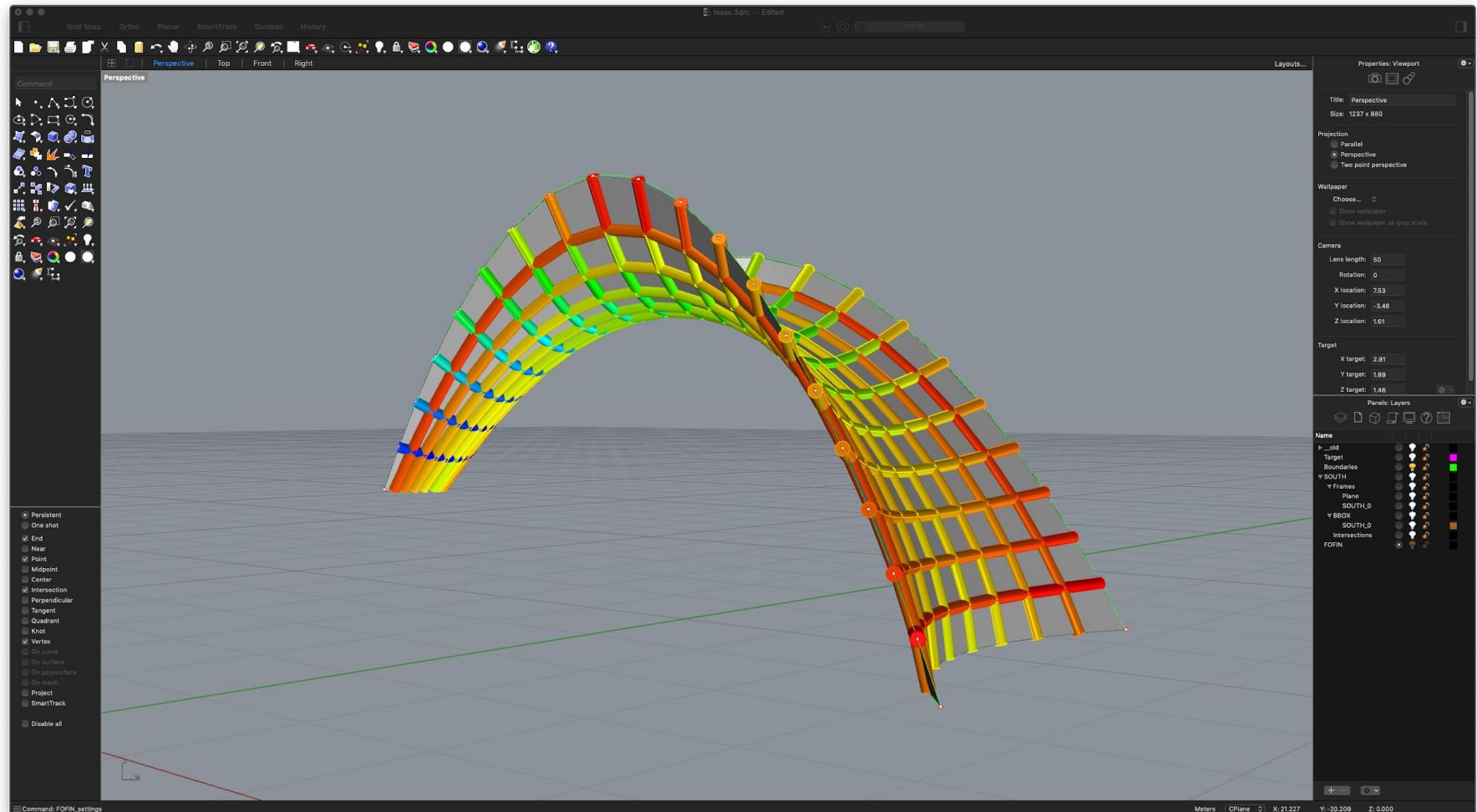


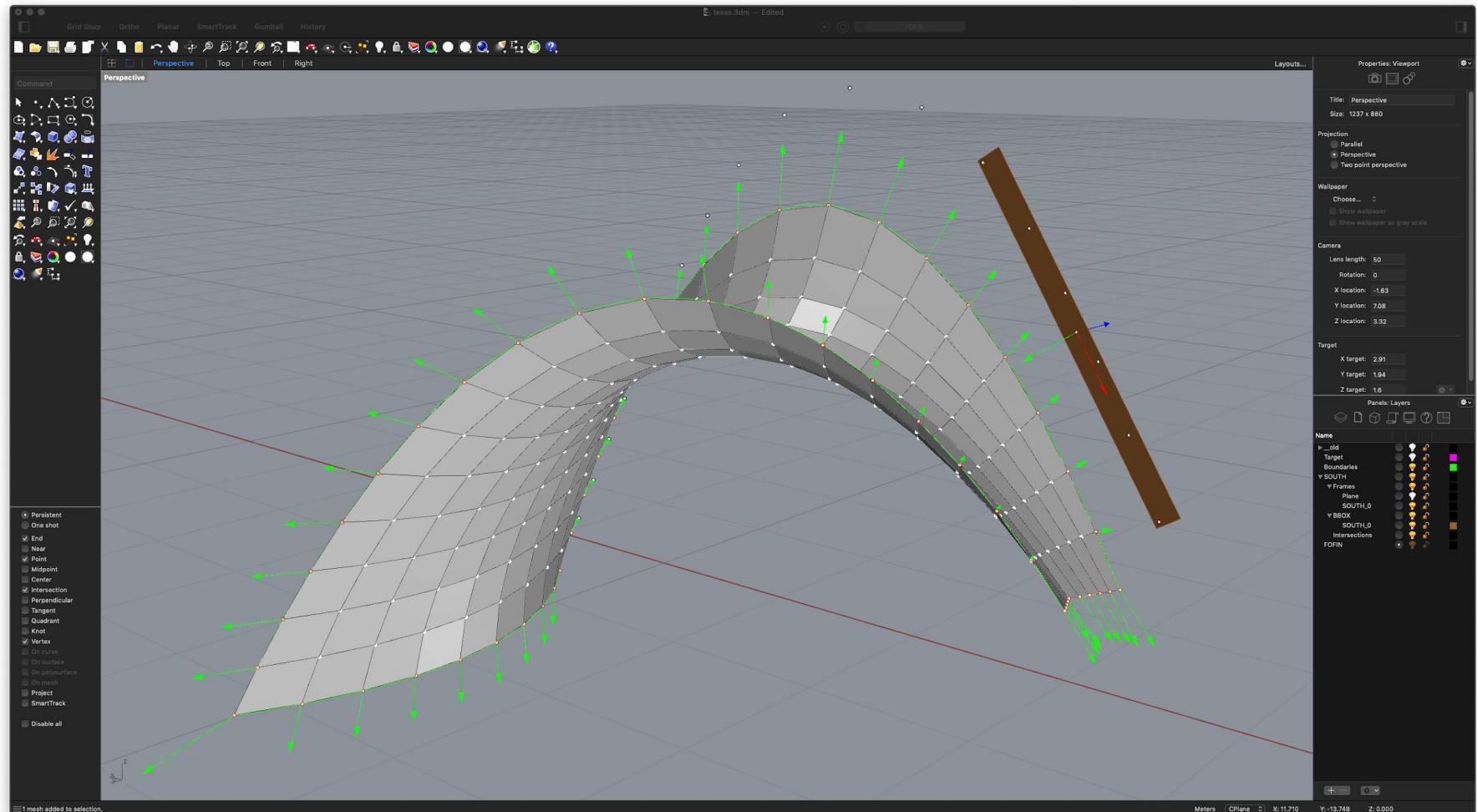






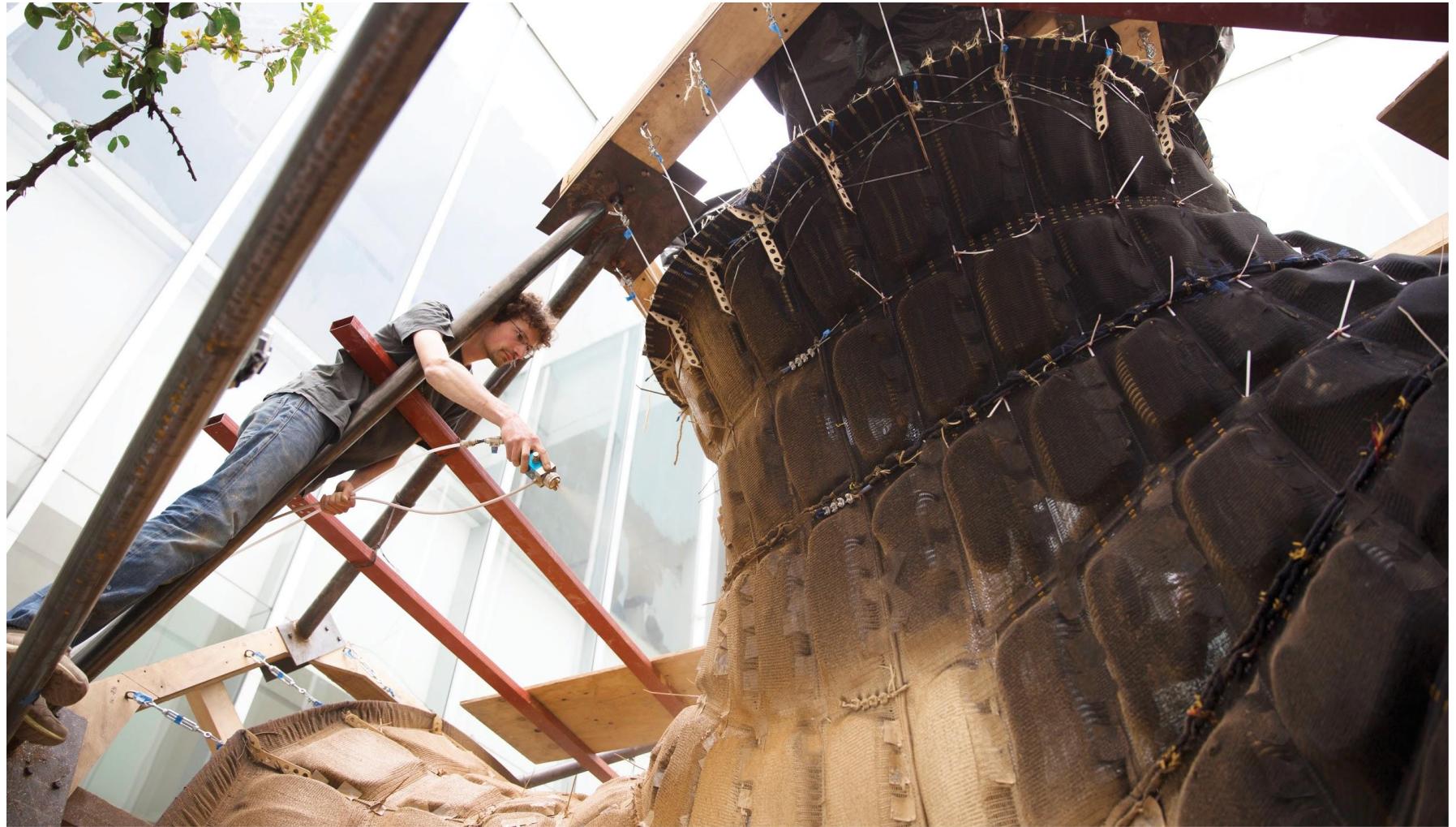






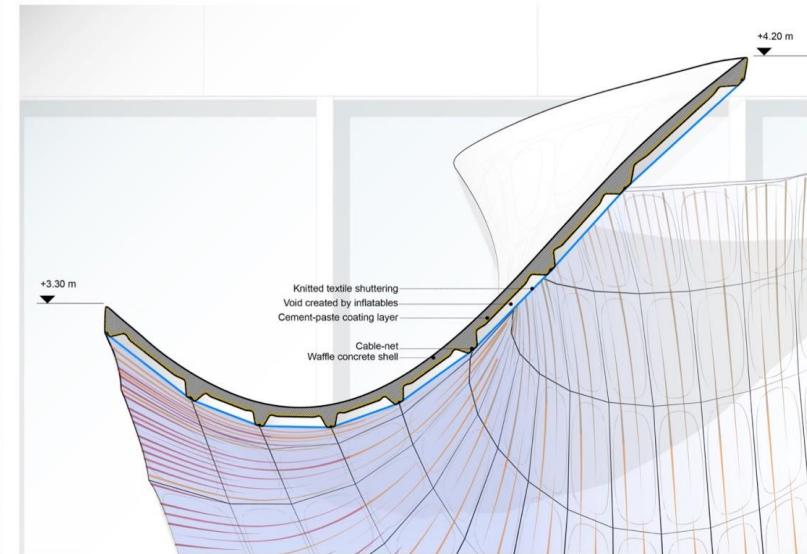
KnitCandela

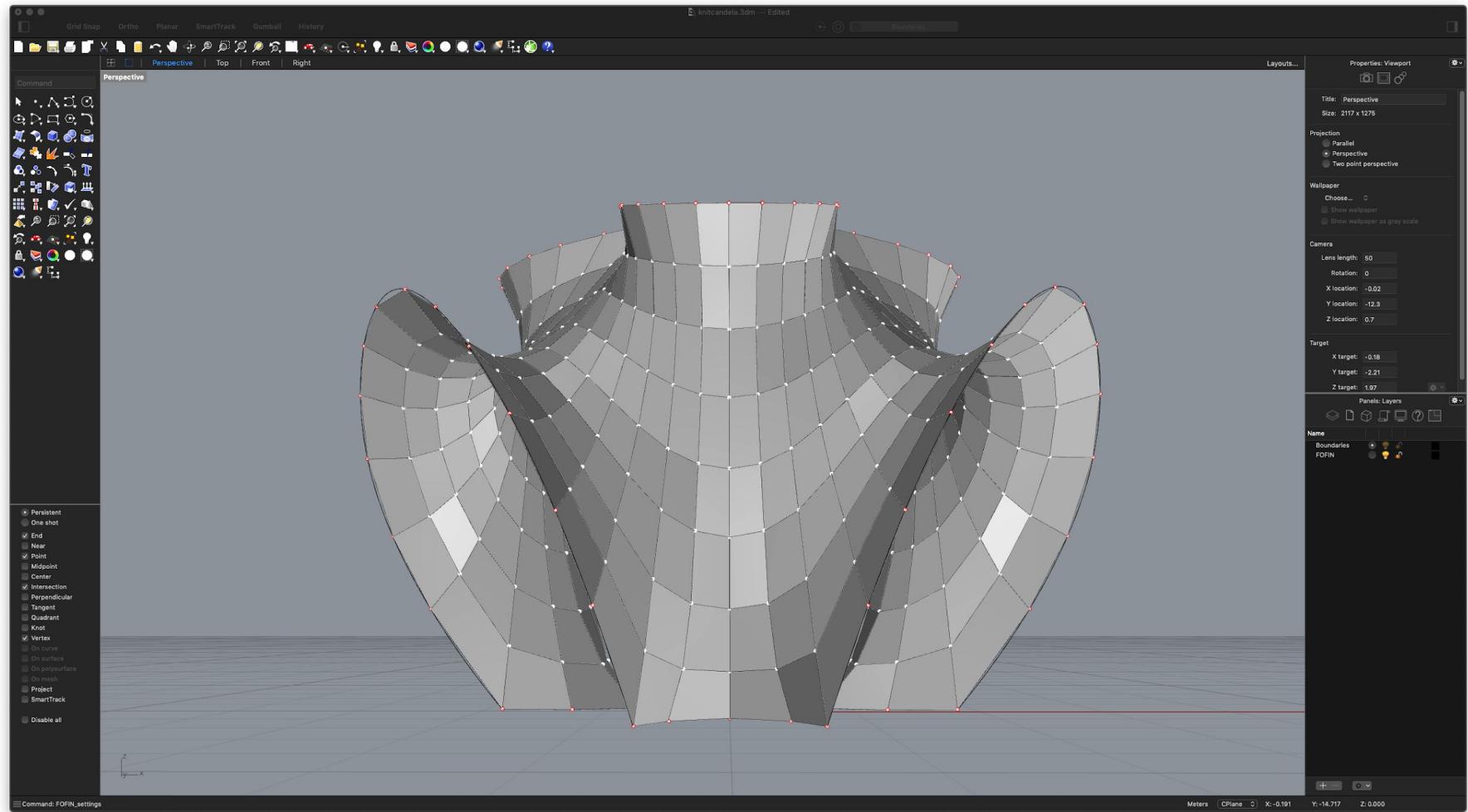


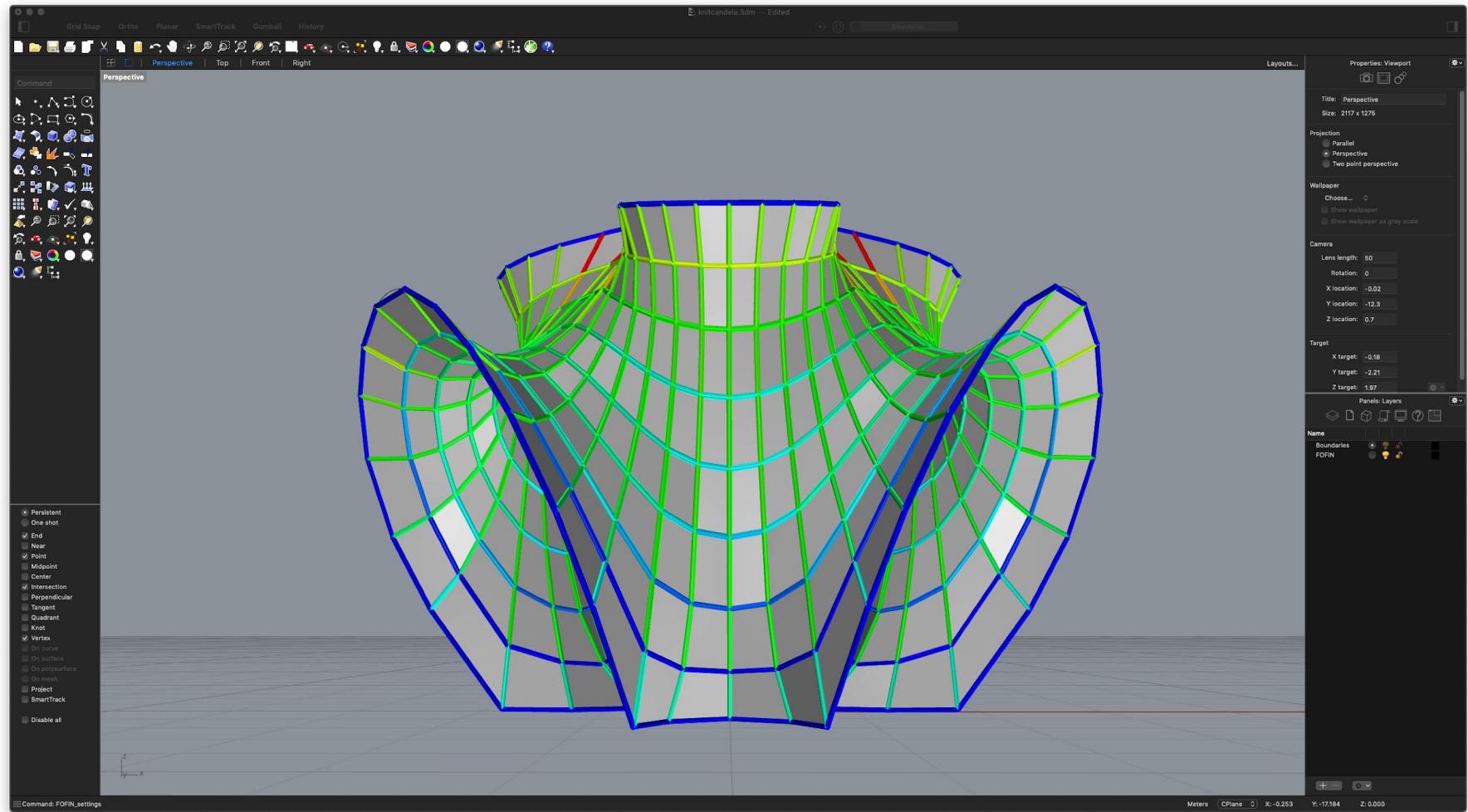


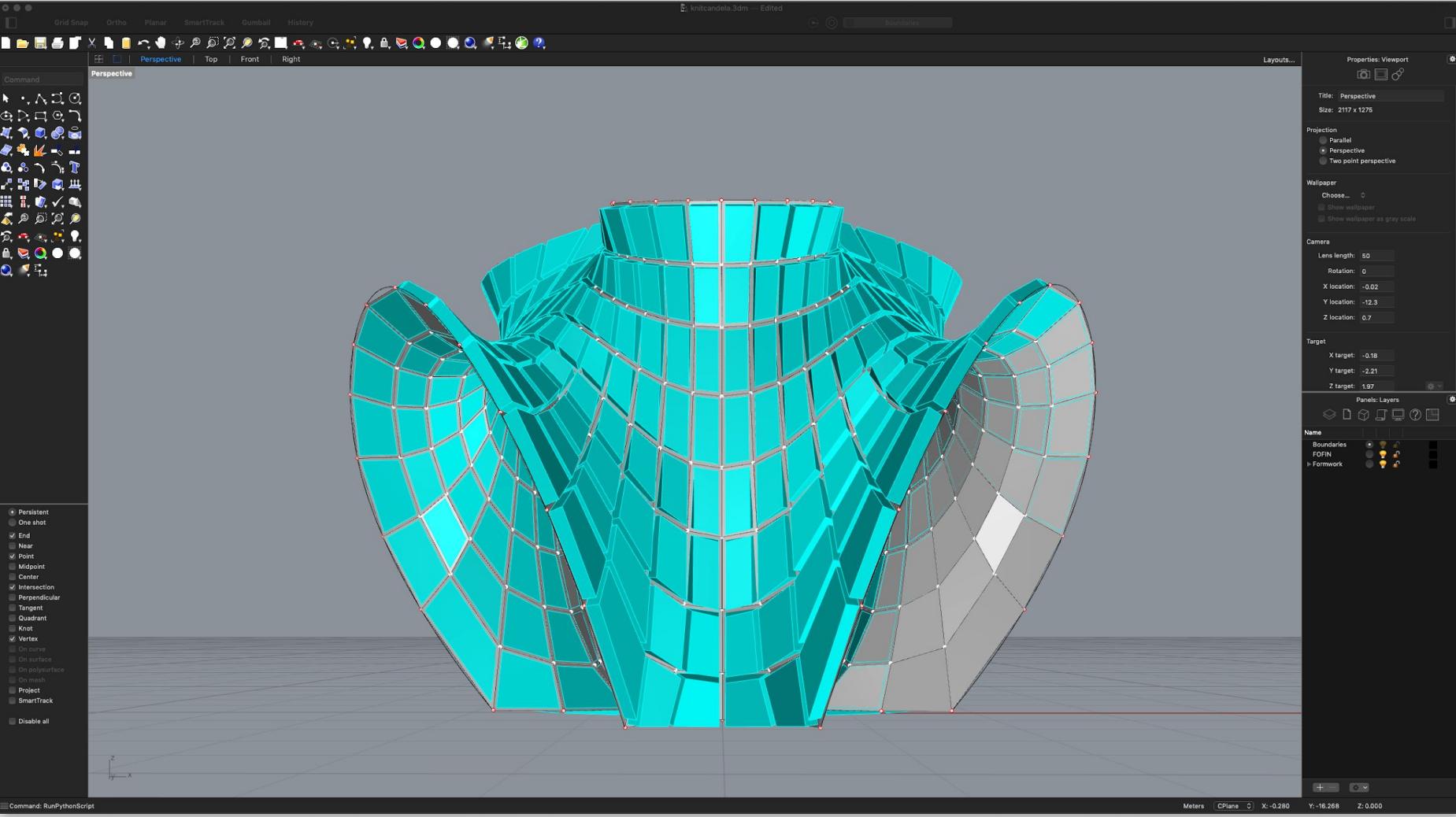










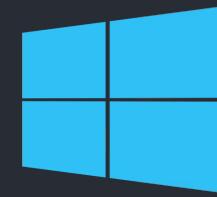


update compas

update compas_fofin

update compas_fofin-UI

update ITA19



Terminal

Anaconda Prompt

install compas_fofin


```
>>> import compas  
>>> import compas_fofin  
>>> exit()
```


install compas_fofin-UI



+ TAB

```
python -m compas_rhino.install_plugin -v 6.0 FOFIN
```


Assignments

KnitCandela

Generate formwork for ribs

1. Offset each face polygon inward by 25mm
2. Make foam block per offset face polygon that creates space for 50mm-thick ribs

Texas Shell

Generate boundary frame

1. Compute frame of boundary points
2. Offset frame
3. Intersect reaction forces with boundary plane
4. Compute bounding boxes of consecutive nodes
5. Compare to max dimensions beams
6. Find intersection lines between consecutive segments
7. Generate offset to create beam volume