

DELTA: Soil and Water Formations

This proposal transforms the hidden traces of the Río Negro delta into a shaded refuge within the landscape of the Museo Barba del Desierto. The project begins by mapping the historic channels and branching formations of the delta that traverse the museum territory. These fluvial patterns are translated into a series of stabilized earth tiles produced through robotic 3D printing using locally sourced soils.

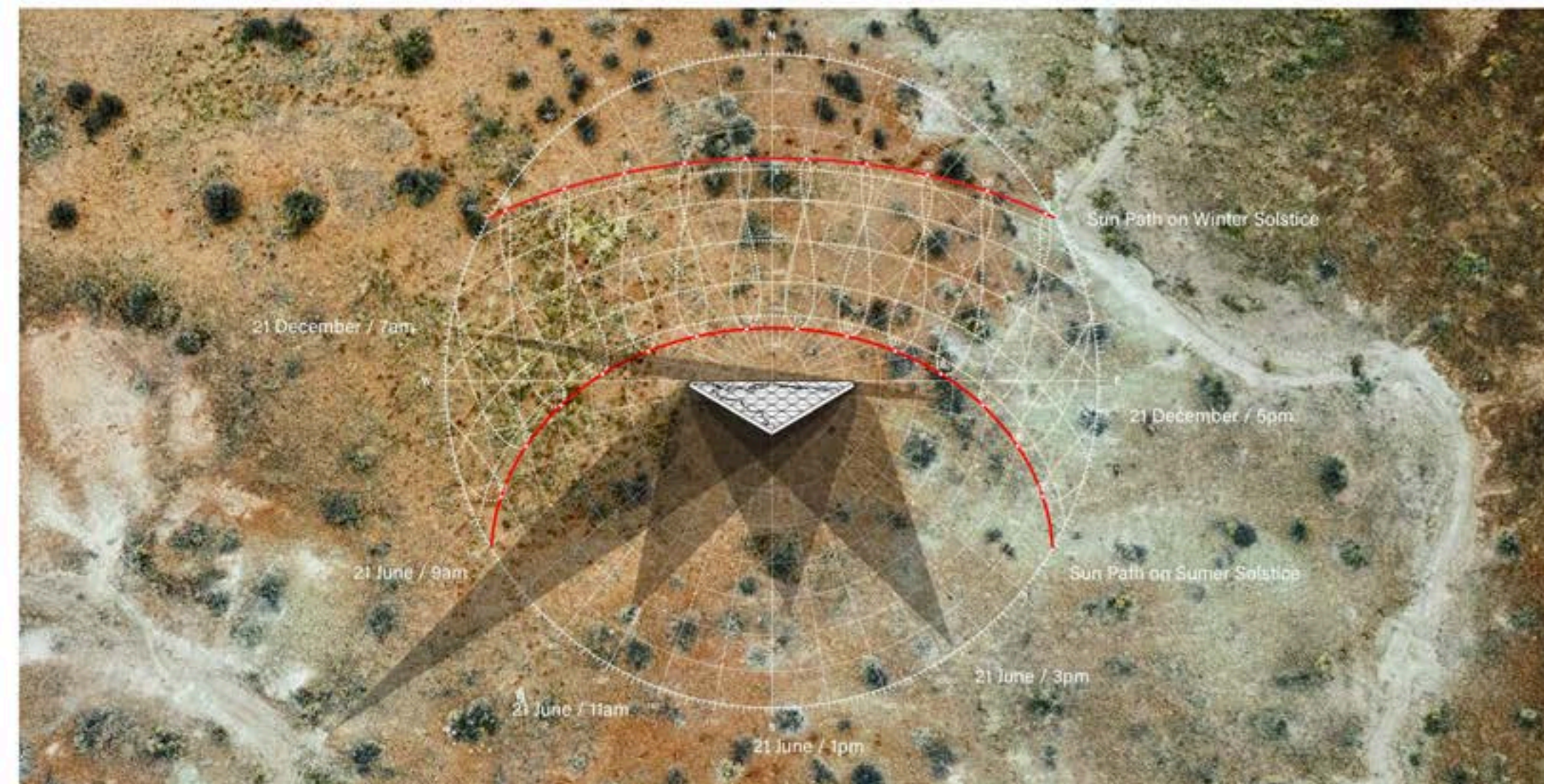
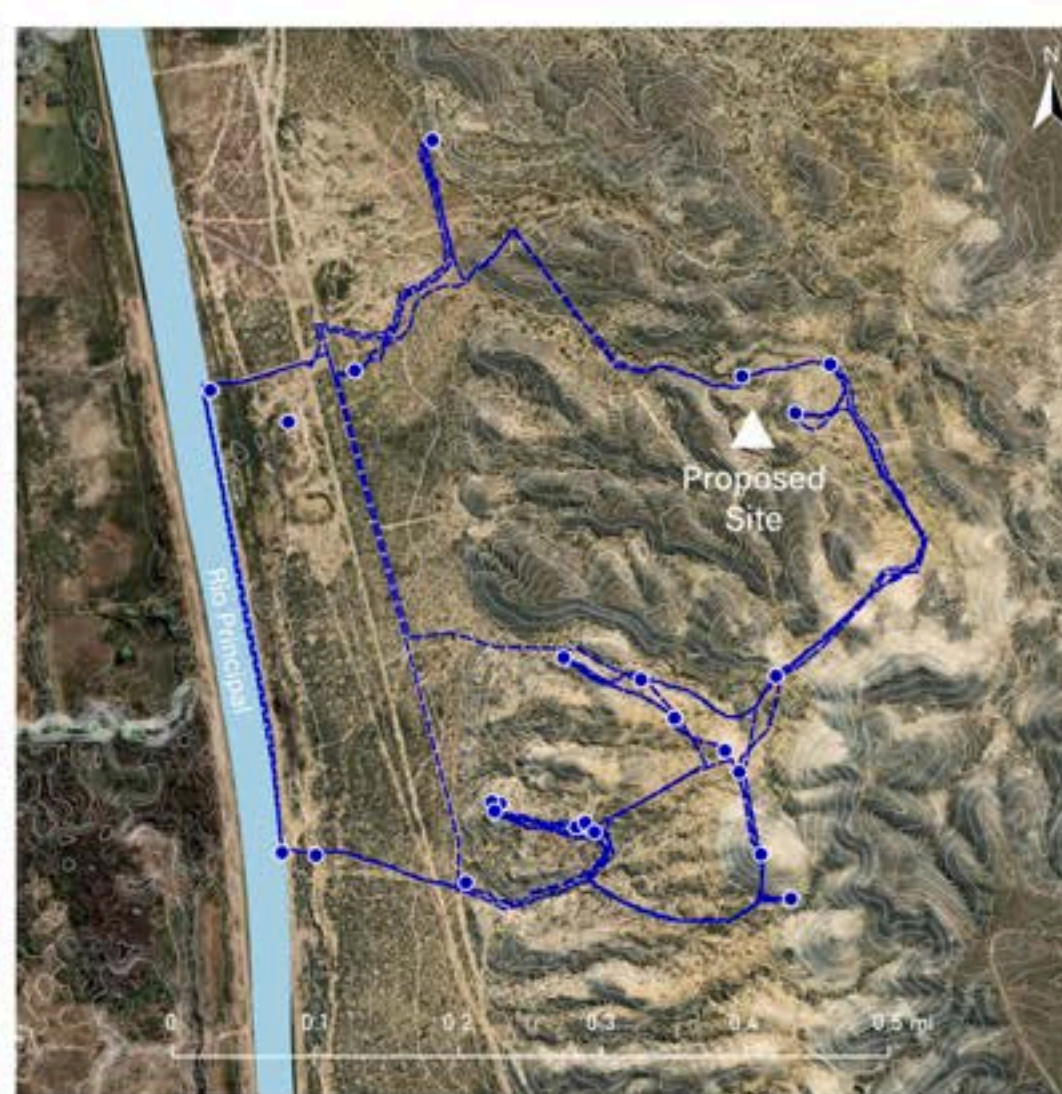
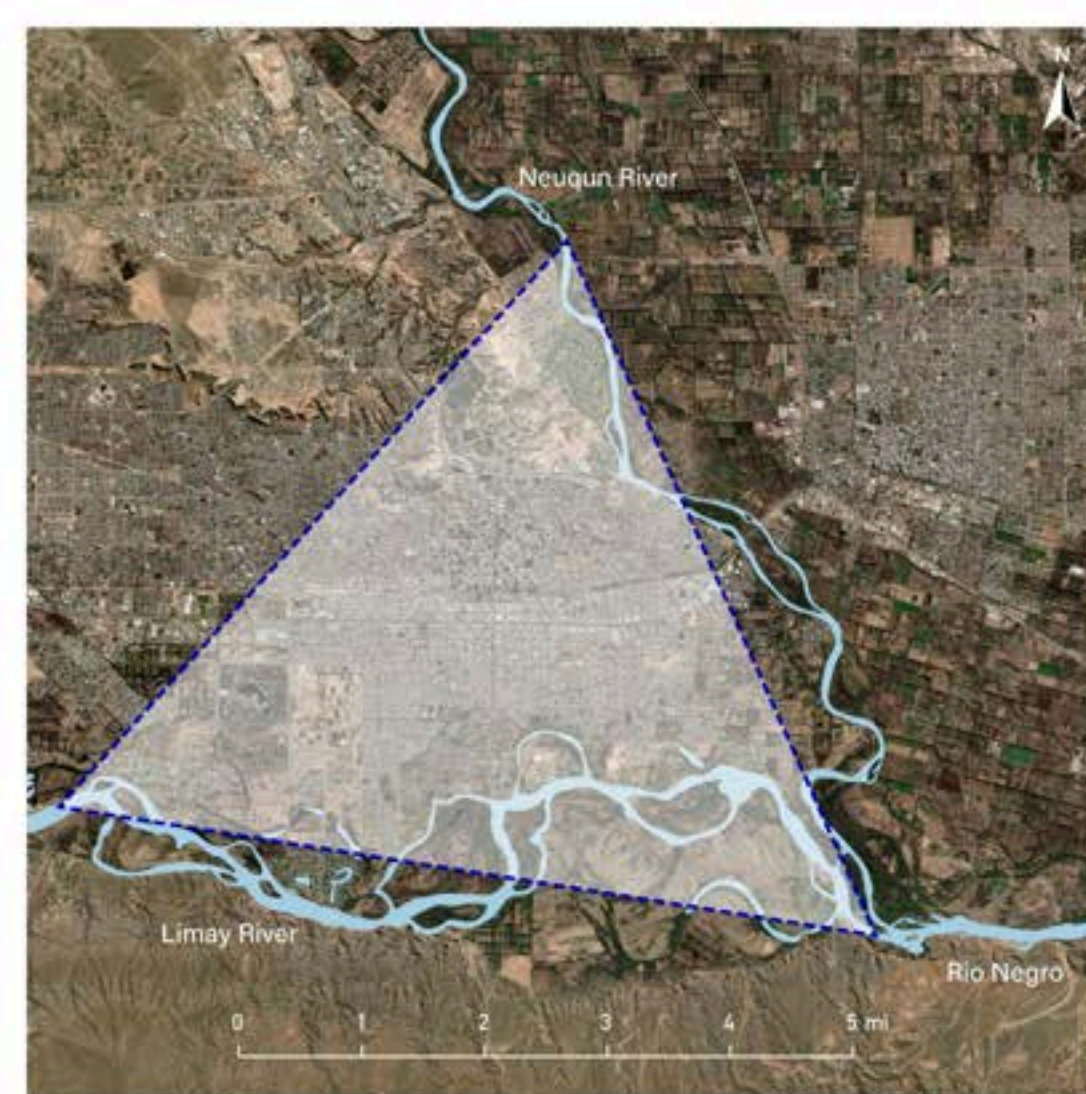
The tiles record the topographic and hydrological memory of the site. Their textured surfaces register contours, sedimentary flows, and territorial transformations, creating an inhabitable cartography that connects visitors to the geological and ecological history of the barba.

The tiles assemble into a triangular structure that frames and produces shadow as a spatial event. Rather than functioning as a static shelter, the installation operates as a territorial sundial. Throughout the day, the projected shadow migrates across the ground, tracing solar movement and revealing the relationship between earth, time, and atmosphere. The work therefore understands shadow not as a by-product of architecture, but as its primary material.

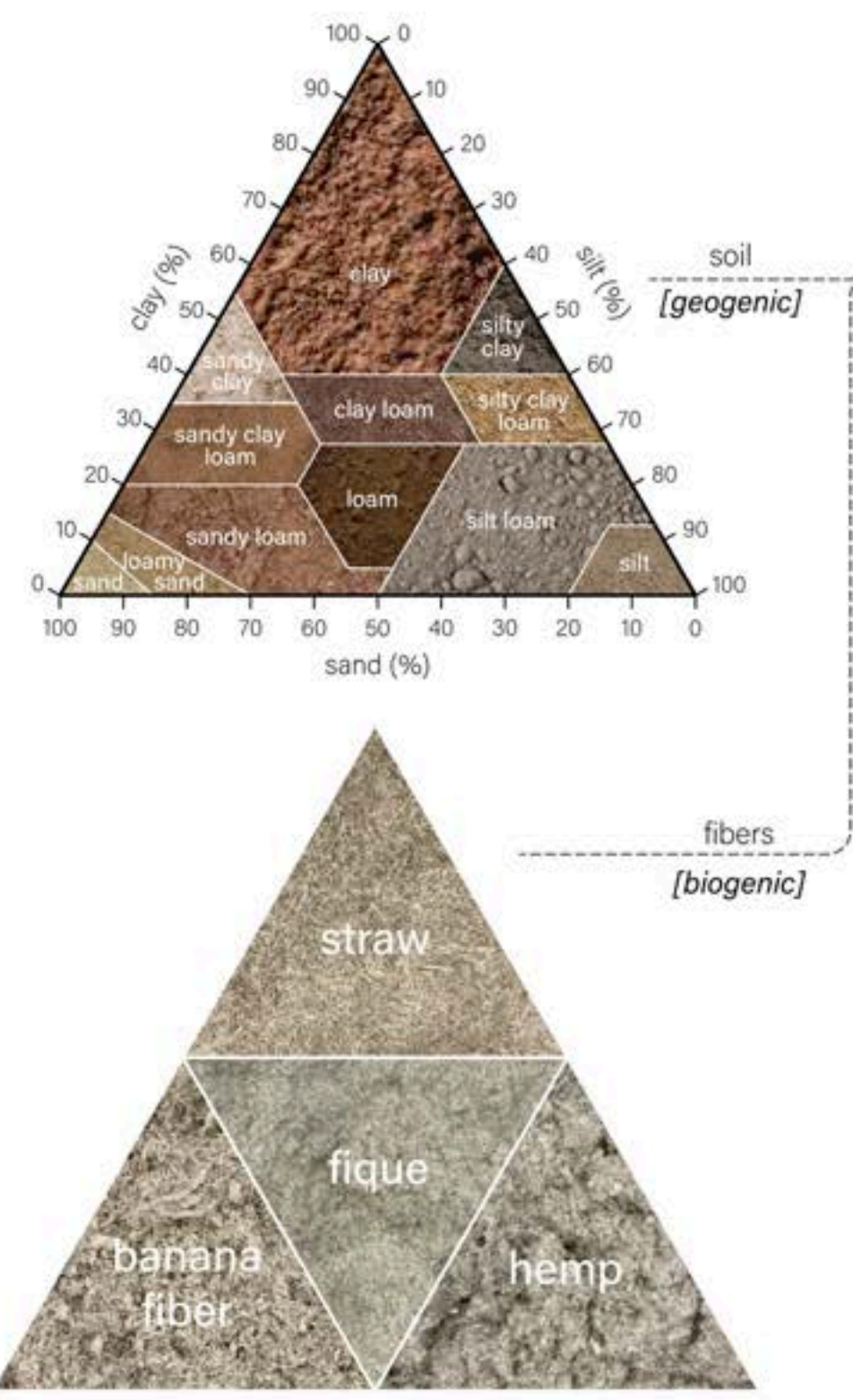
Designed as a place of pause, encounter, and environmental awareness, the structure provides shade and refuge for approximately 2-5 visitors at a time. Its compact footprint minimizes intervention in the landscape while creating a shared space for rest, orientation, observation, and collective experience.

Celebrating earth construction, digital fabrication, solar registration, and site-specific cartography, the project proposes an architecture that emerges directly from the territory it inhabits. The resulting refuge celebrates the Río Negro delta as both a physical and cultural landscape, transforming its traces into a living instrument that continuously redraws the relationship between sun, soil, shadow, and shelter.

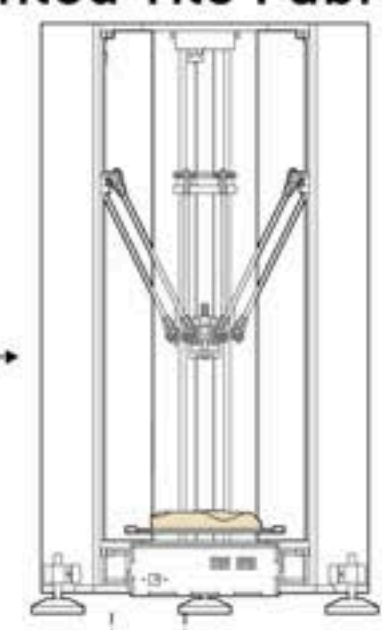
concept



Stabilized Earth-Fiber Materials

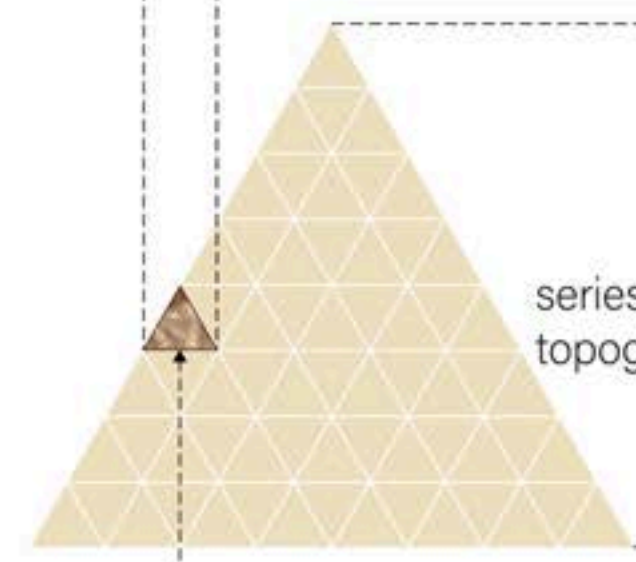


3D Printed Tile Fabrication

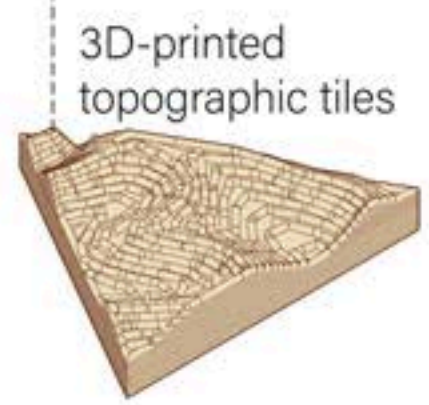


3D Printer
WASP Delta
Clay 40100

Material System

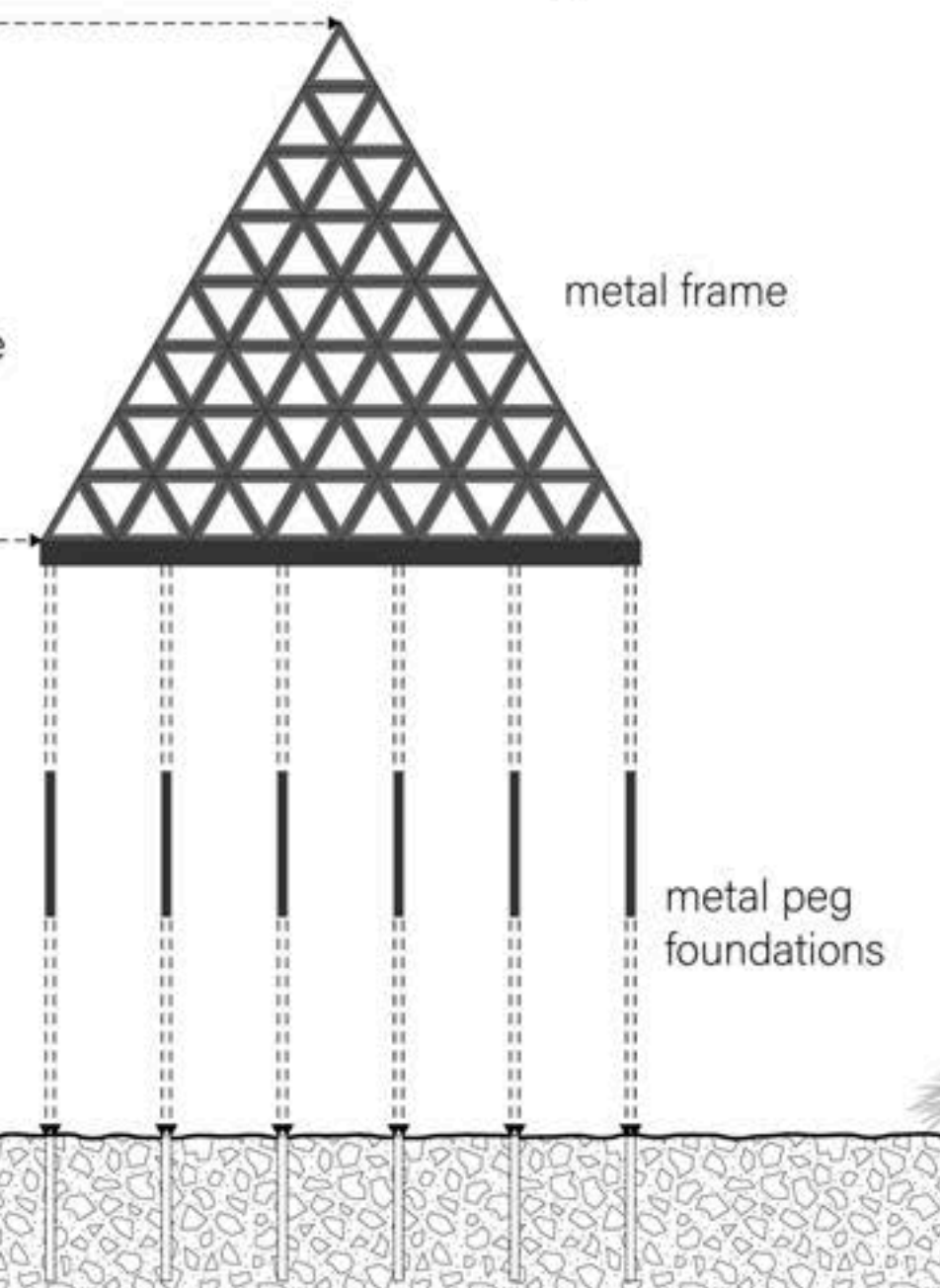


series of
topographic tile



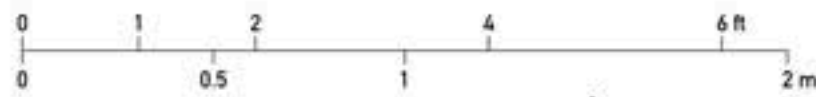
3D-printed
topographic tiles

Assembly



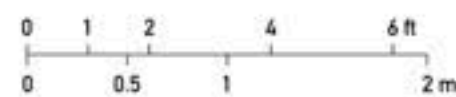
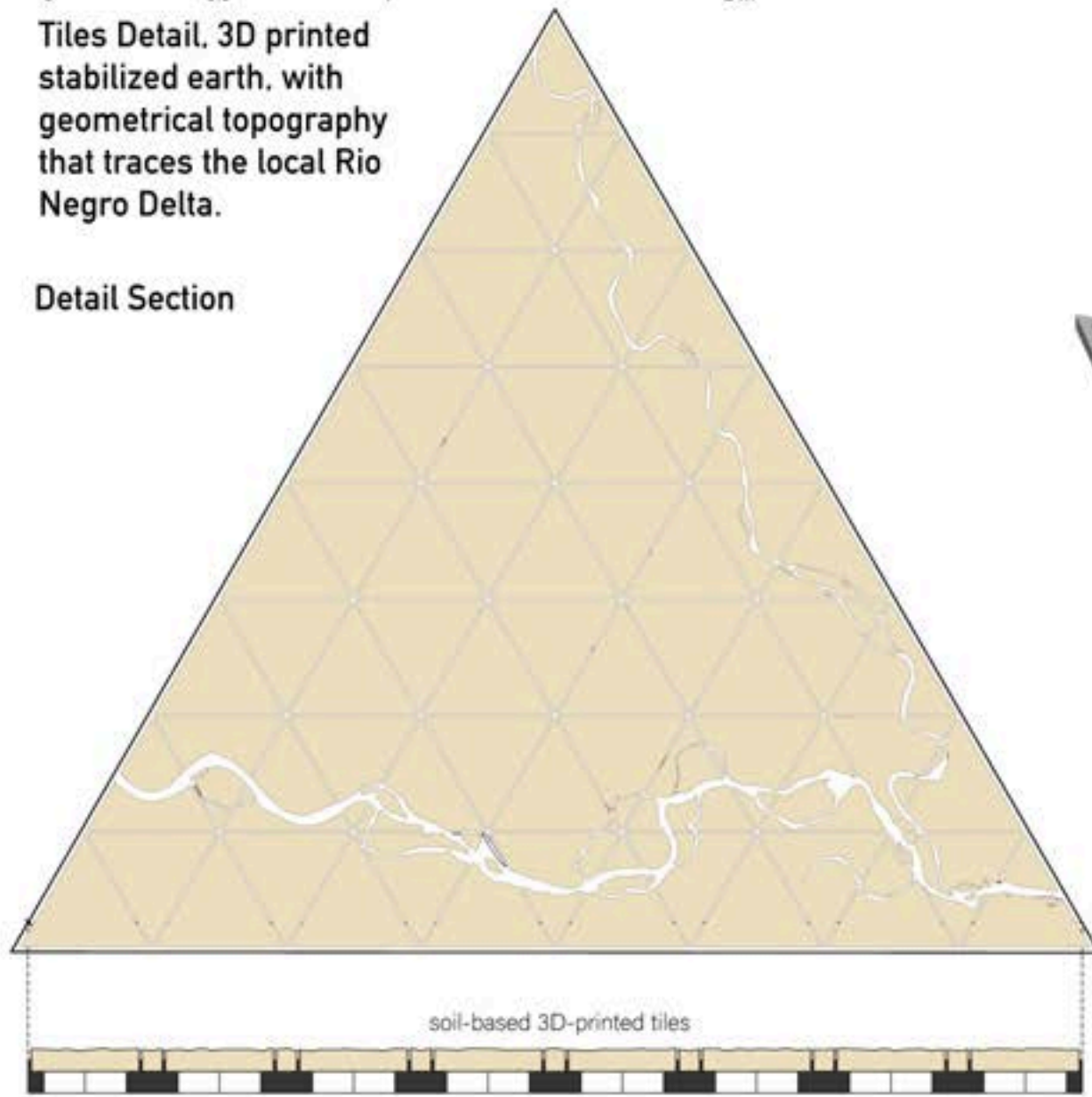
metal frame

metal peg
foundations

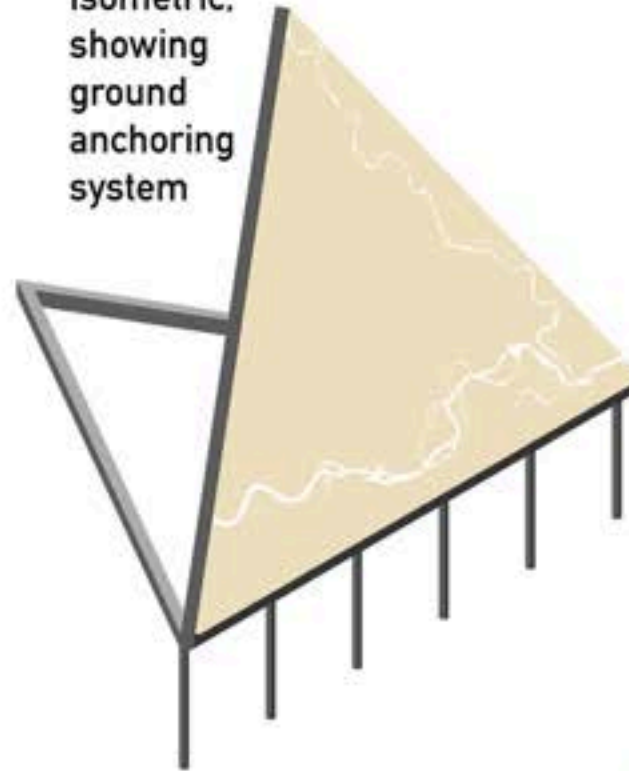


Tiles Detail. 3D printed stabilized earth, with geometrical topography that traces the local Rio Negro Delta.

Detail Section



Isometric, showing ground anchoring system



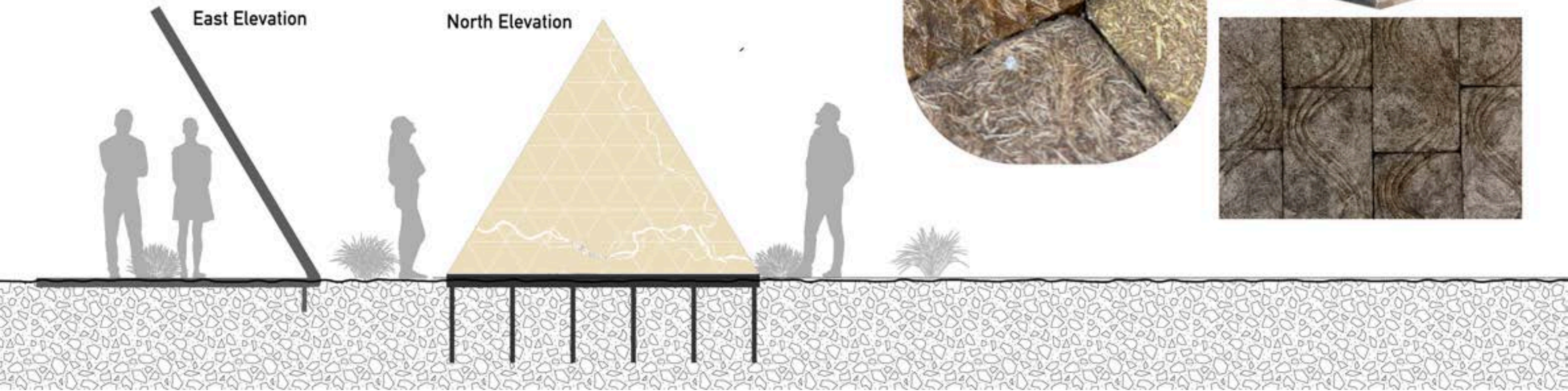
Construction

Previous earthen tiles produced by the Natural Materials Lab



East Elevation

North Elevation





Visualization