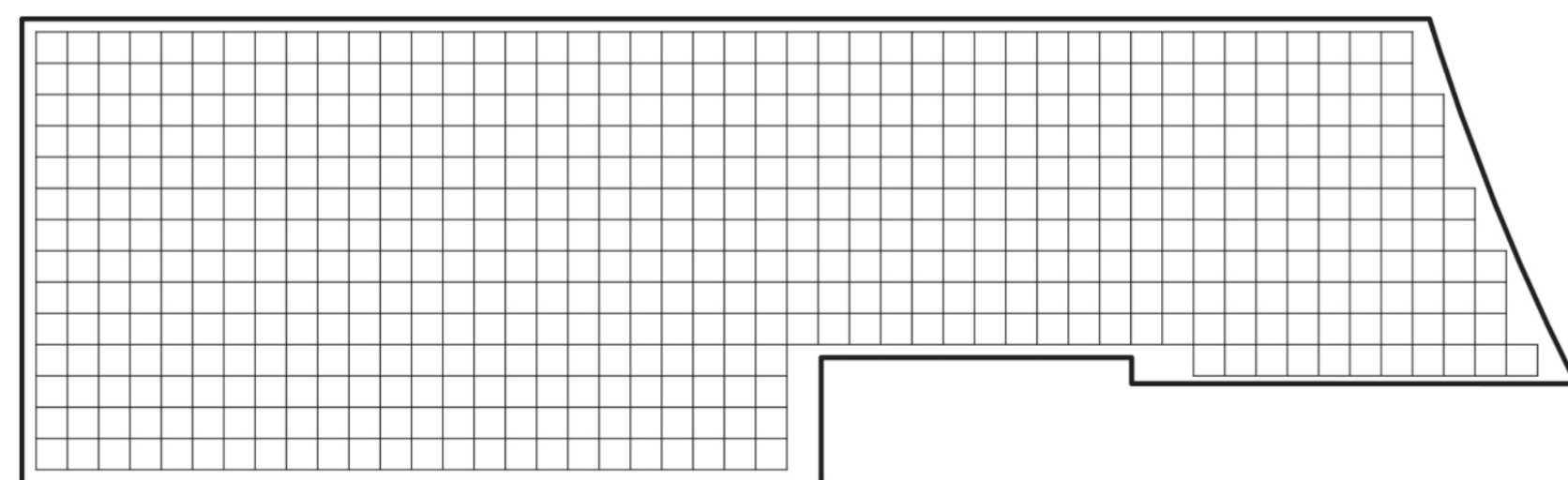
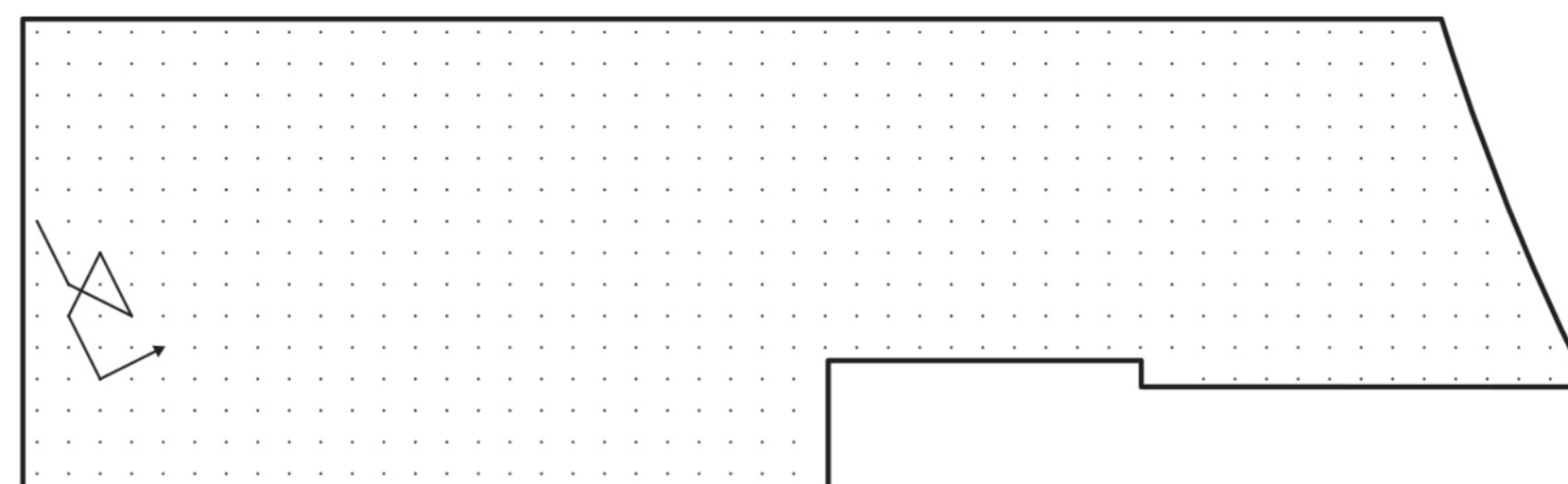


Design Procedure



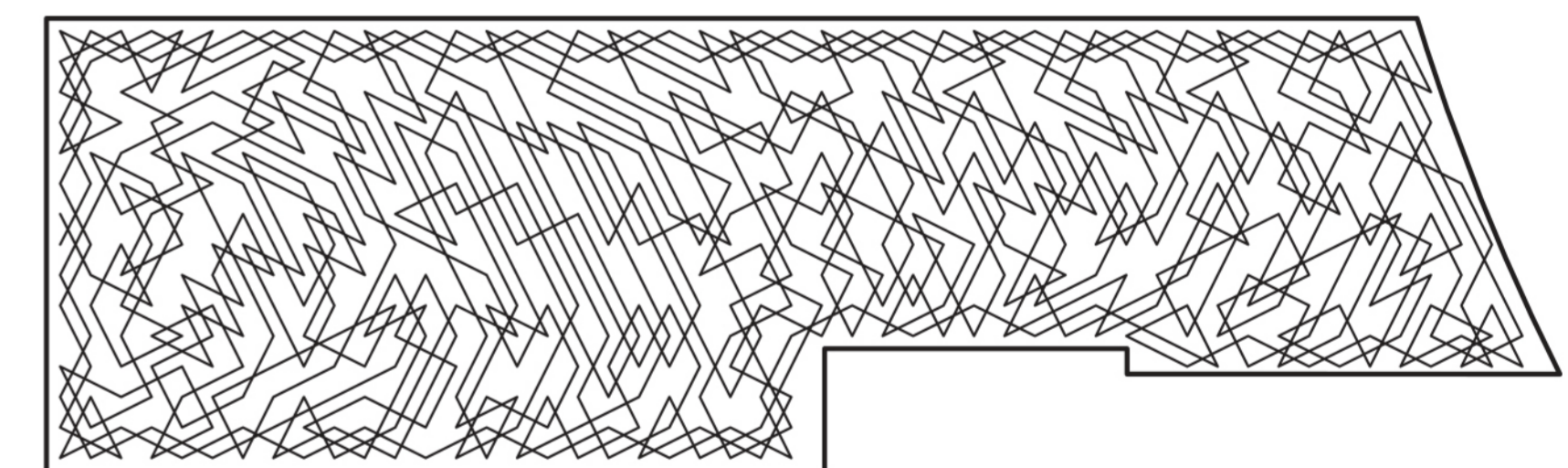
1. The Grid

A 6x6 m grid is projected on the boundary surface of the site to achieve a systematic base for the structure and the pathway.



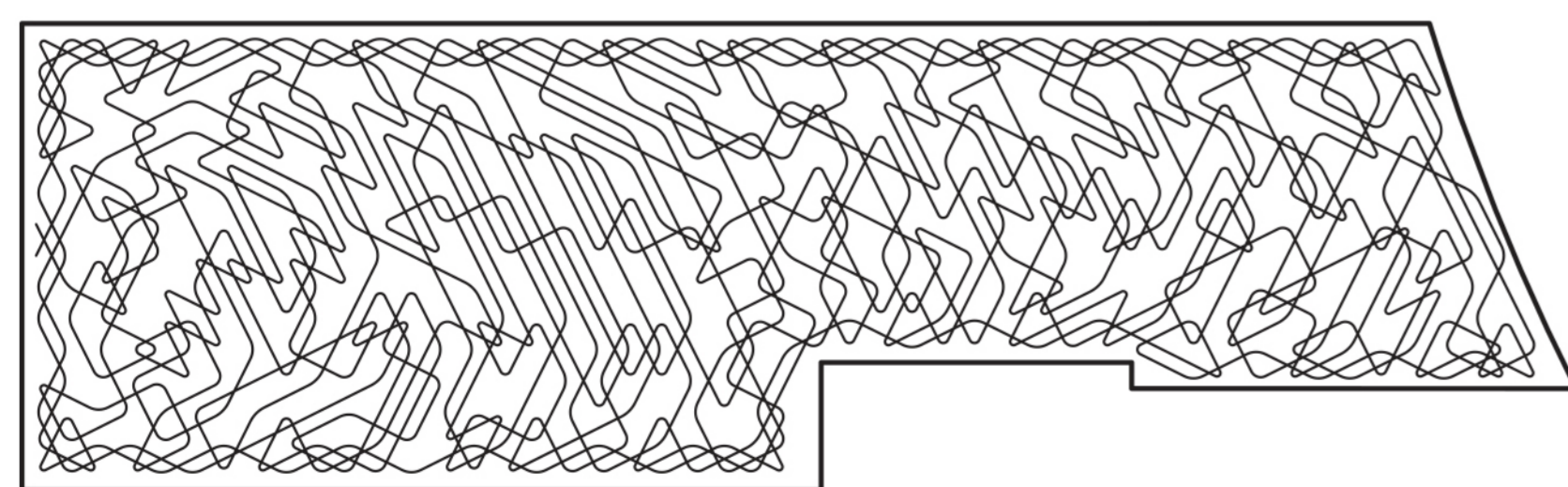
2. Point Grid

The intersections of the grid is used as input points for the algorithm that generates a continuous polyline. Thus, the surface area of the site is used with maximum efficiency.



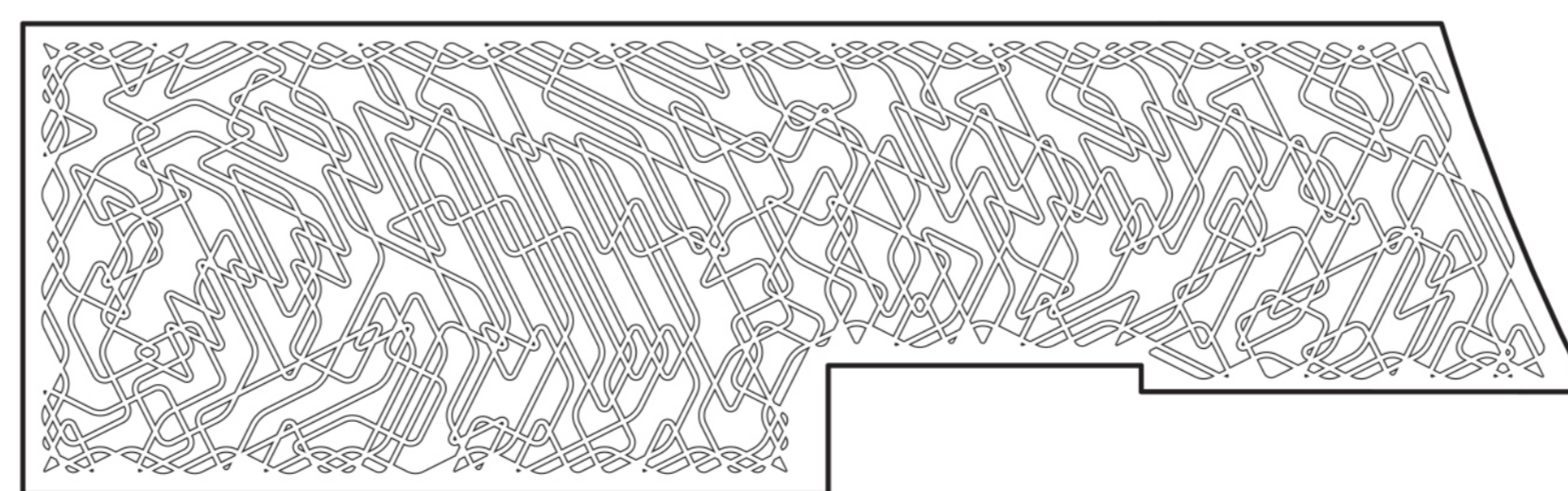
3. Algorithmic Pattern

Generated by a mathematical path finding algorithm, the path is actually a single continuous curve that connects every single point the grid. By computing the curve that has the maximum possible length in this conditions, the amount of pavement tiles placed on the path is also maximized to produce maximum amount of potential piezoelectricity.



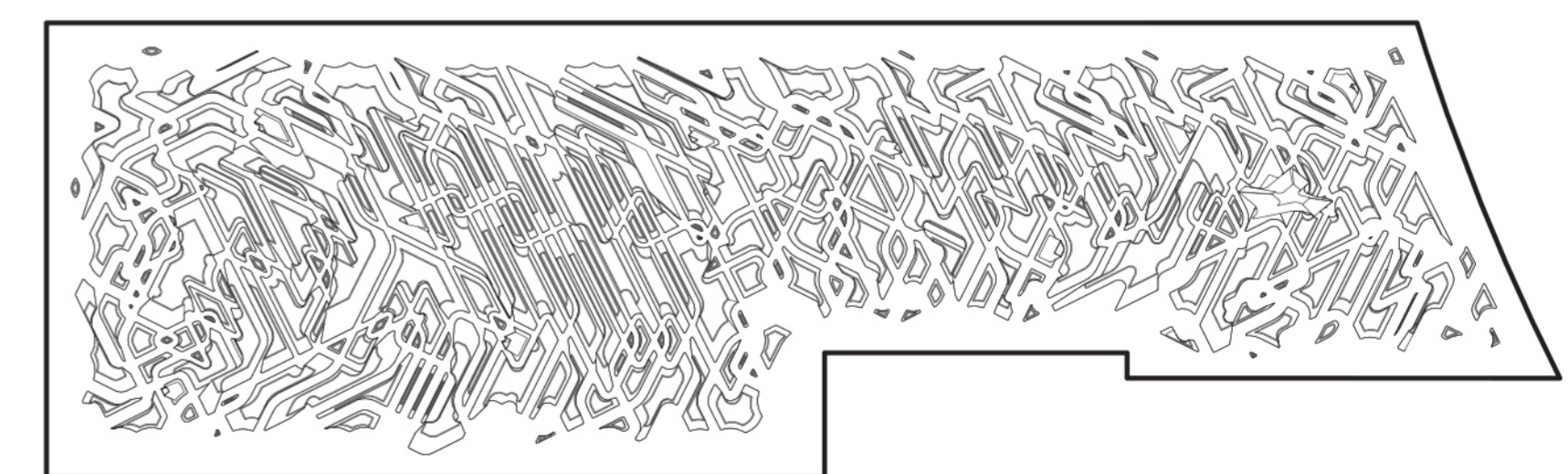
4. Filleting the Corners

The corners of the polyline is filleted in order to have smooth direction changes while walking on the path.



5. Offsetting the Path

The path curve is offsetted and subtracted from the boundary surface to form isolated and fragmented bases for the structure and the solar panels.



6. Forming the Cells

The final form of the maze is generated by an attractor based script which offsets, extrudes and tapers ground level curves to create concrete cells, batteries and the solar panels.