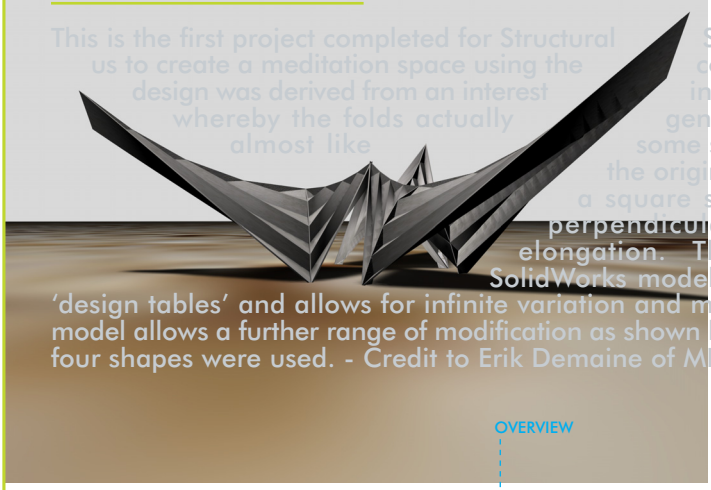
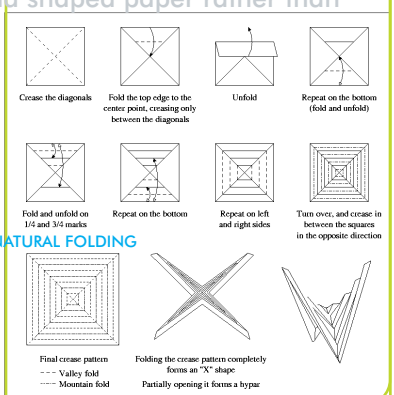
PROJECT DATA

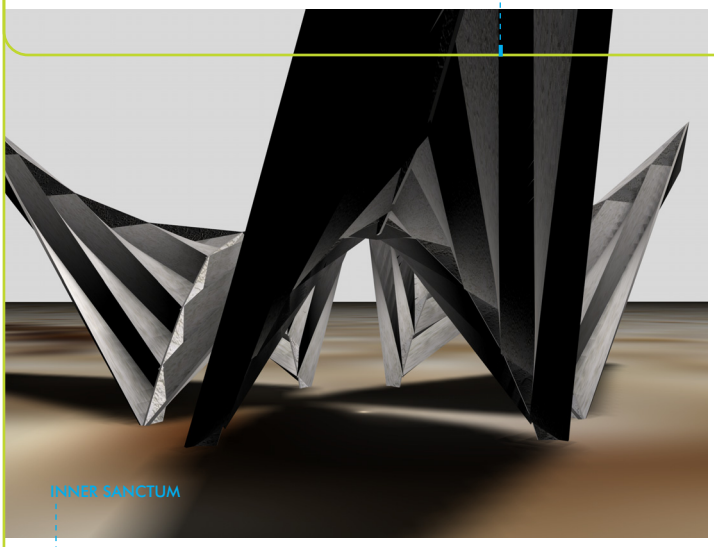
This is the first project completed for Structural Surfaces - also a two-week affair. The brief was asked us to create a meditation space using the concept of folded (and thereby structural) surfaces. My design was derived from an interest in folding paper, specifically the technique shown below whereby the folds actually generate a desire in the paper to emulate a hypar shape - almost like some smart materials that 'remember' their shape. I modified the original technique to use diamond shaped paper rather than a square shaped piece - still with a perpendicular axis - creating more elongation. The model is a parametric SolidWorks model that uses 'equations' and 'design tables' and allows for infinite variation and manipulation. The assembly model allows a further range of modification as shown by an earlier iteration where four shapes were used. - Credit to Erik Demaine of MIT for the folding technique.



OVERVIEW

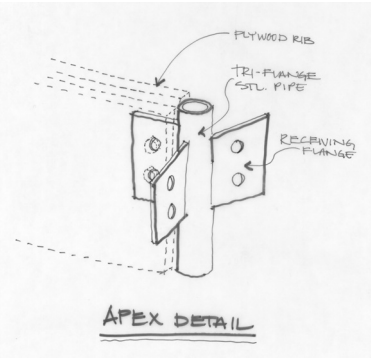
A NATURAL FOLDING

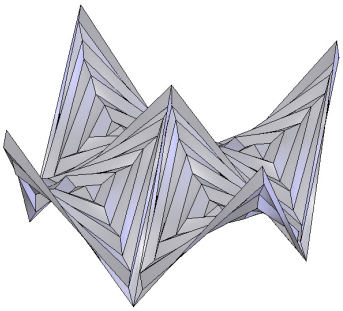


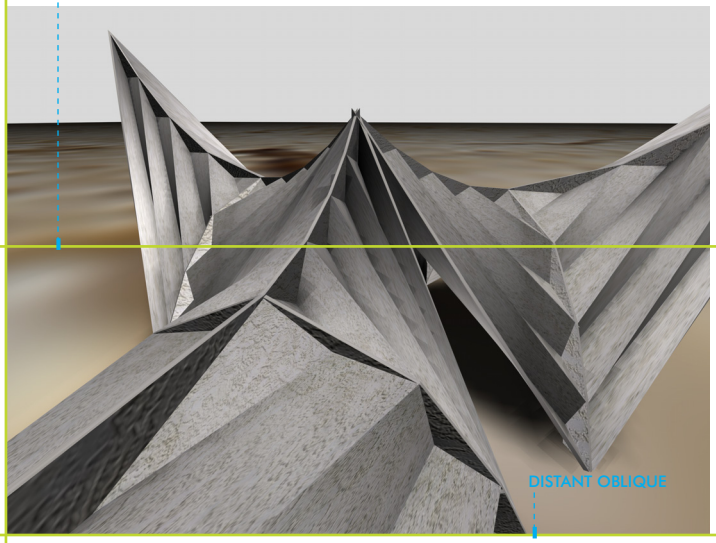


INNER SANCTUM

PARAMETRIC ALTERNATIVES







DISTANT OBLIQUE

PROPOSED DETAILS