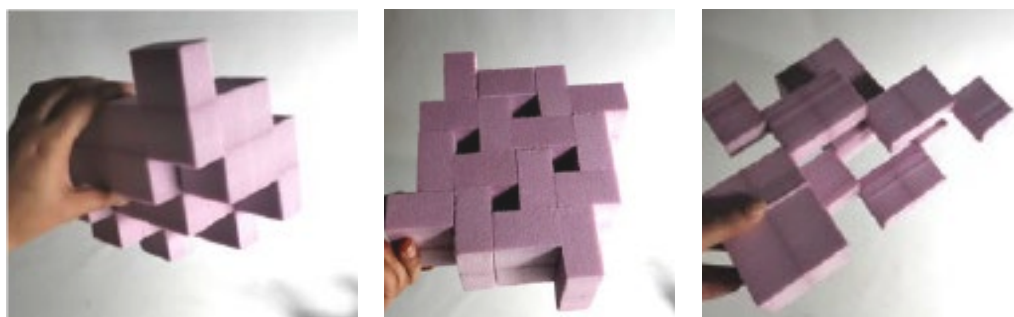
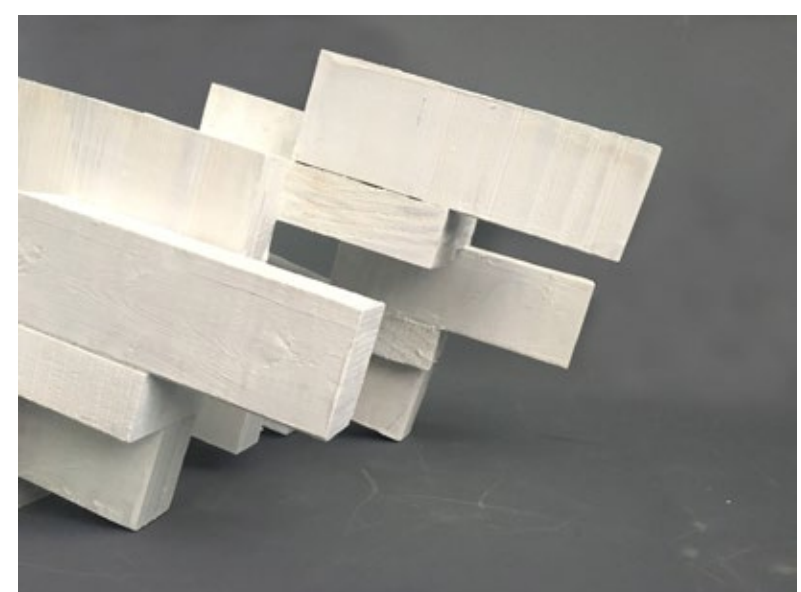
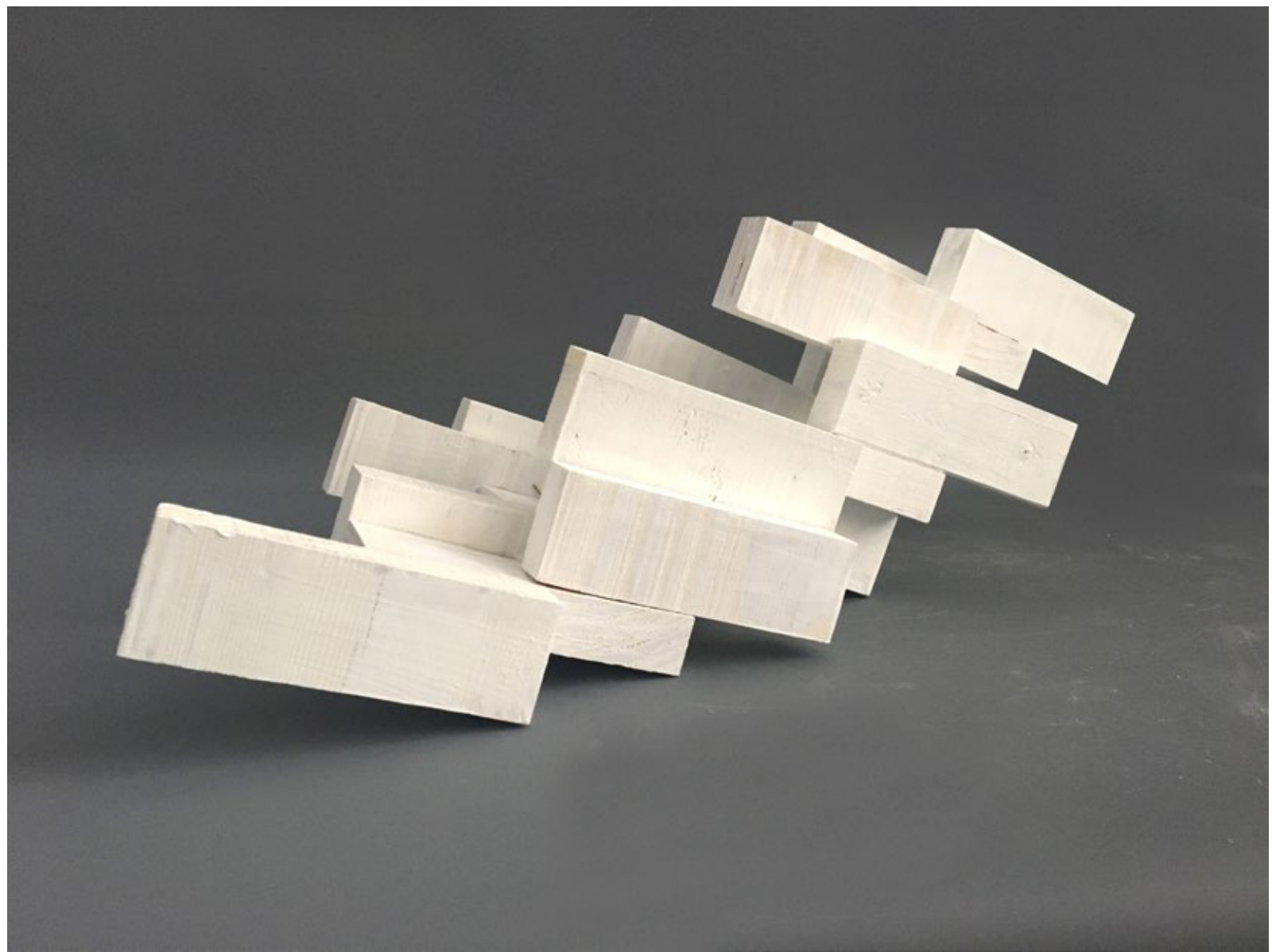


VOID -- FORMATION GRAMMAR

For this project, we based our shape grammar on very simple and clear rules and explored how they could build upon each other to create something more dynamic and spatial. We started with a single rectangular block, and by applying the rule of "split--remove--rotate--lift" repetitively, we ended up with a complex form that left intriguing voids and apertures within the structure. The act of "removing" one piece during each turn is essential to lending the structure a certain level of unpredictability and a sense of organic growth.

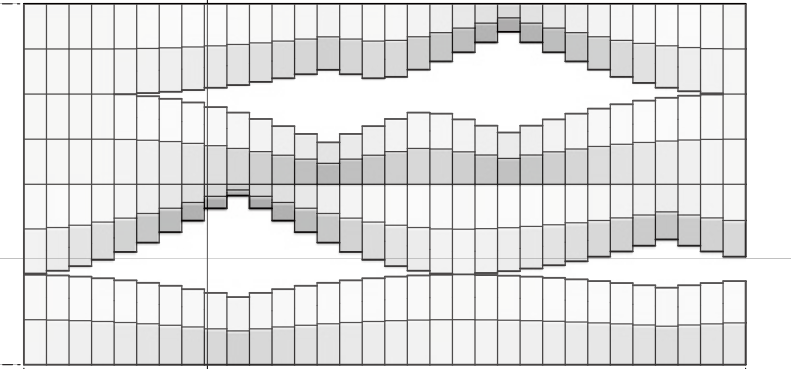




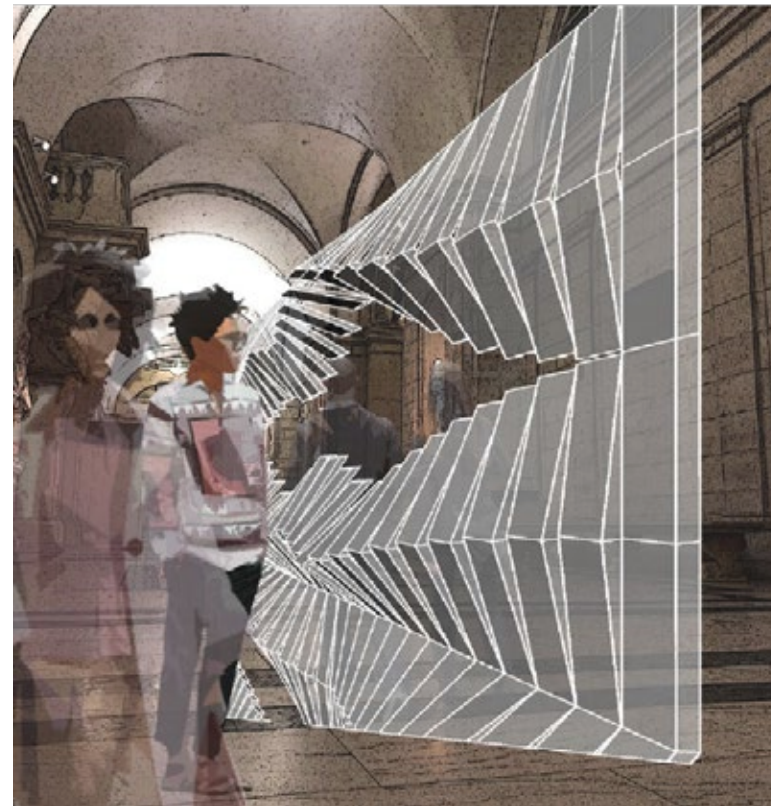
section 1'=1"



elevation 1'=1"



plan 1'=1"

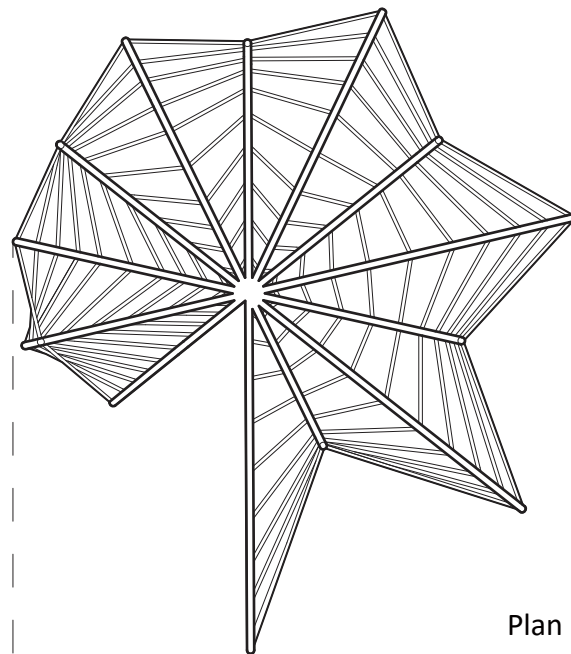


TIDE -- RESPONSIVE MECHANISM

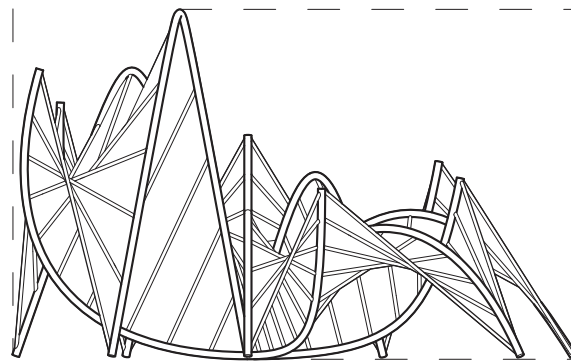
Our responsive wall is designed to capture the routinely flux of people through the CFA hallway and encourage a brief stop to interact with each other and the surroundings. The basic module is a simple double-panel folding towards top and bottom respectively to create an aperture in the middle. Taking in three parameters--the location of people with respect to the wall, the distance of people from the wall, and the height of people--it can create wave-like patterns at eye levels of both adults and children.

SPIDAL -- PARABOLIC DESIGN

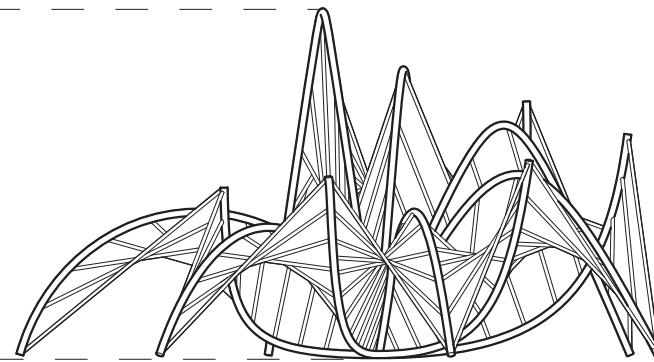
The structure, which looks like a spider with many legs, was derived by simply cutting through a cone with planes of incrementally larger degrees to create two sets of parabolas, and afterwards spiraling them around a center with inverse relationship of height and length. It could be used as a sculpture that also provides shade and shelter for people to gather and hang out.



Plan



Elevation (front)



Elevation (right)

Scale: 3/64" = 1' - 0"





BRANCH -- VERTICAL GARDEN

Our project was designed around a couple of modules that would connect to one another and branch off. The structure is built out of three basic modules: a node module, a straight connecting module, and a curved connecting module. The structure would essentially be built in layers, alternating connecting and node modules as more and more layers were stacked onto it. It would mimic the way that the vines the structure housed grew vertically.

