

The Flower

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Introduction

To add temporary variety and interest to the paths of people at the Liminal festival in Lima and at 13th and Philomath Blvd in Oregon, we developed flower-like parts that evoke a sense of play and whimsy as peers and neighbors pass the threshold.

- Flower/Gear
- Repeating
- Reciprocal Frame

Evoke:

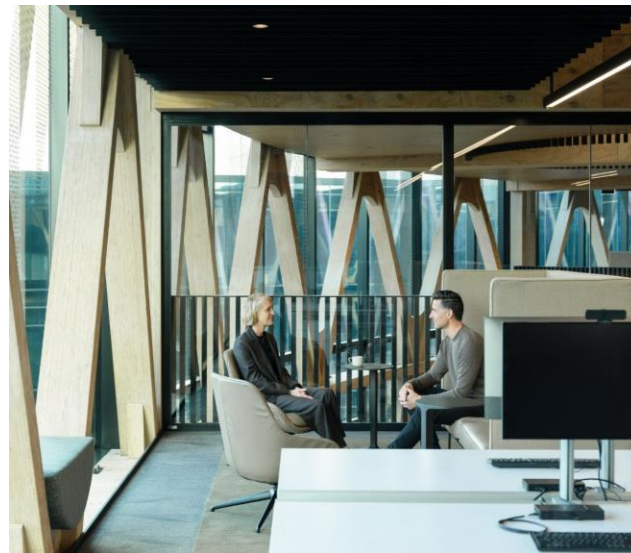
Whimsy, Alice in Wonderland, Meadow of Flowers, Playful Scale



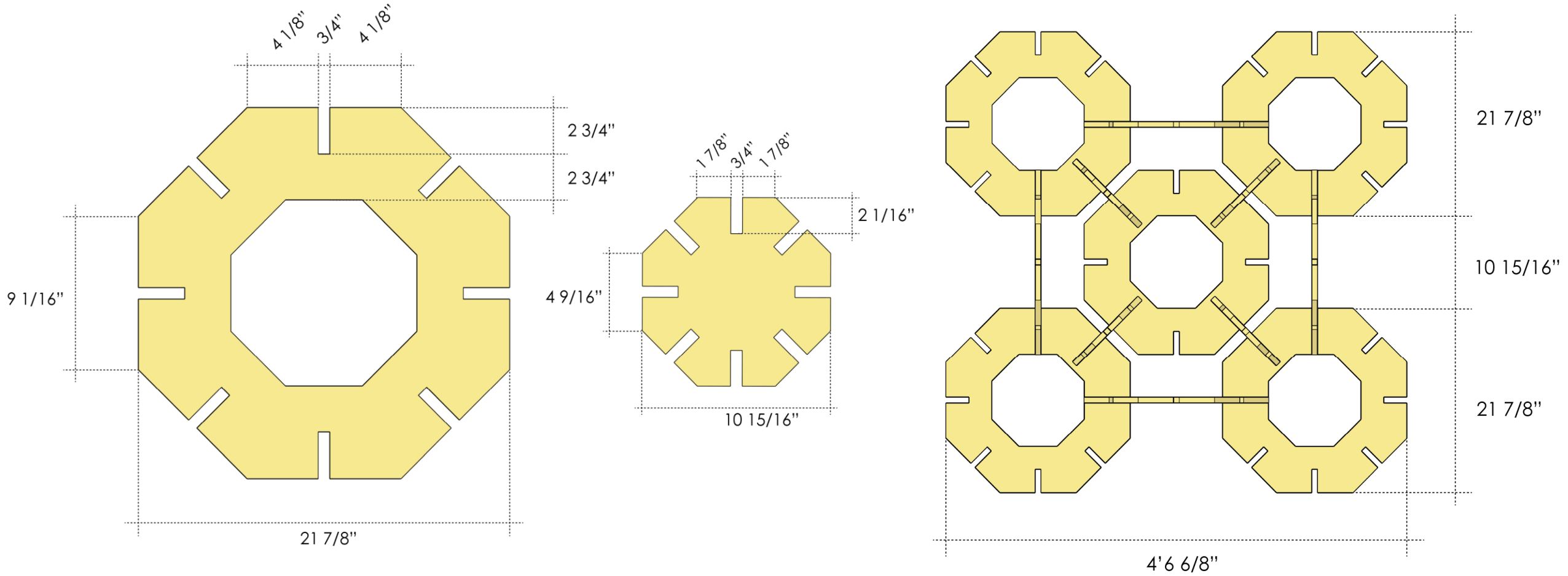
Introduction

Two precedents

- Stacking
- Diagonals
- Diagrid as a wavy wall

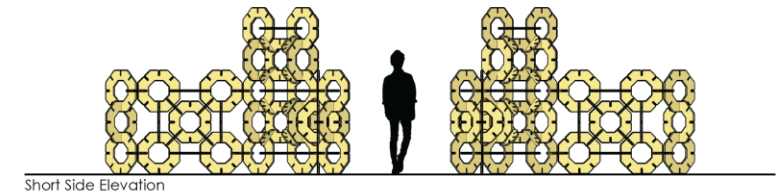
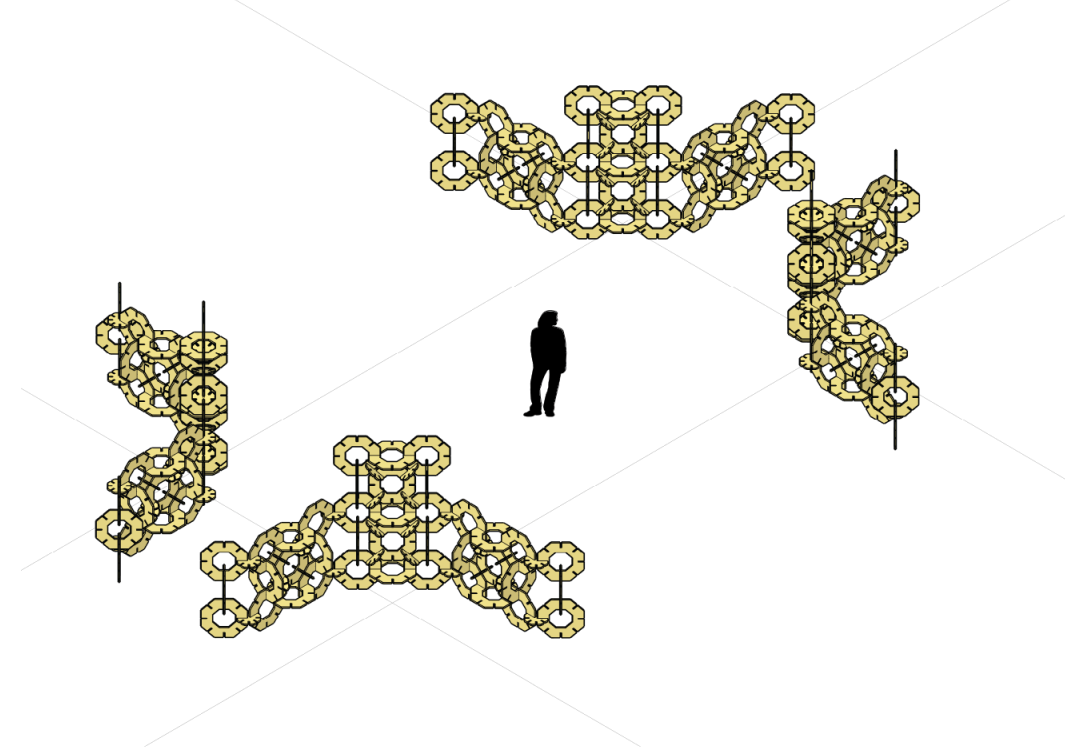
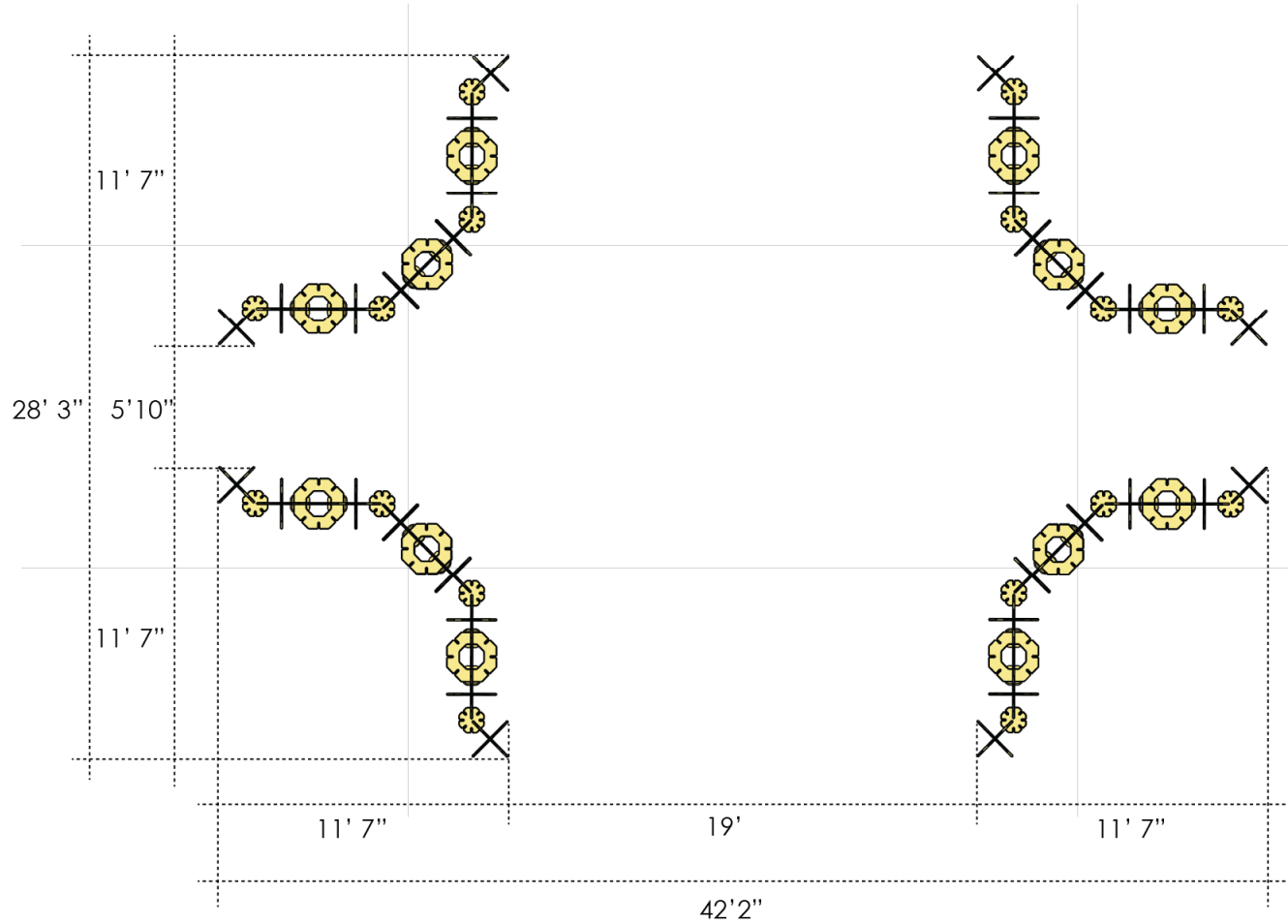


Design Concept



Assembly Video

Design Concept



Color Analysis

Translating Philomath and Lima

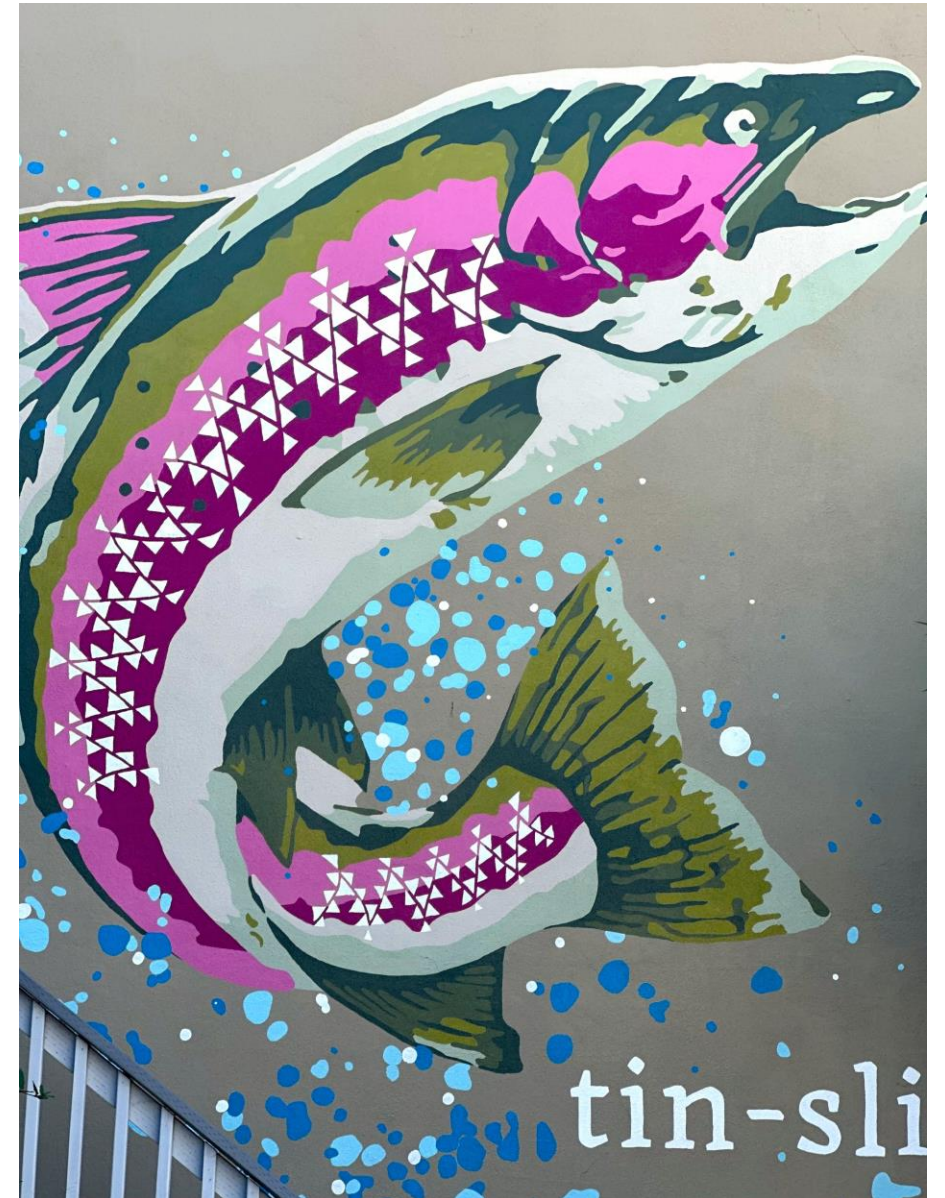
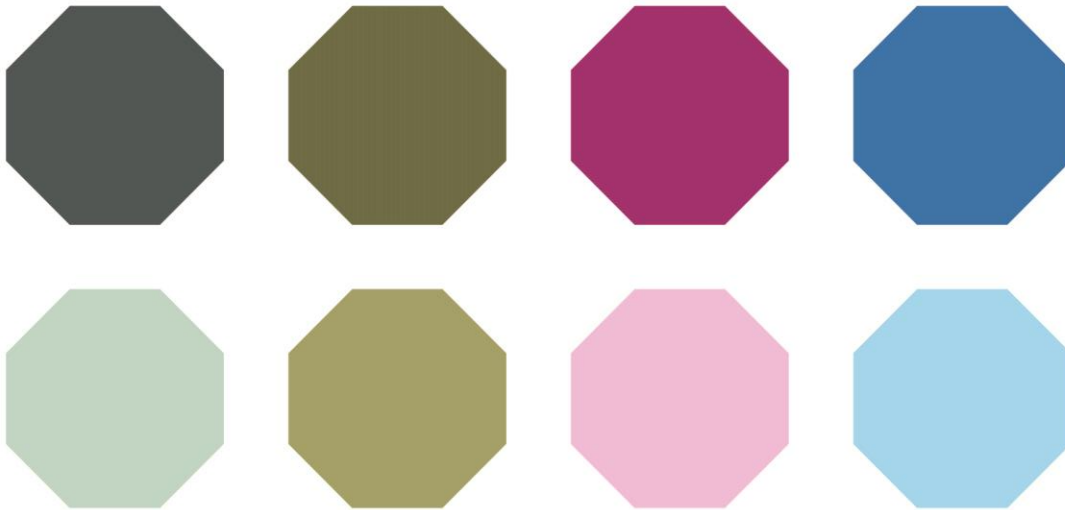
- Taking Inspiration from Surroundings



Color Analysis

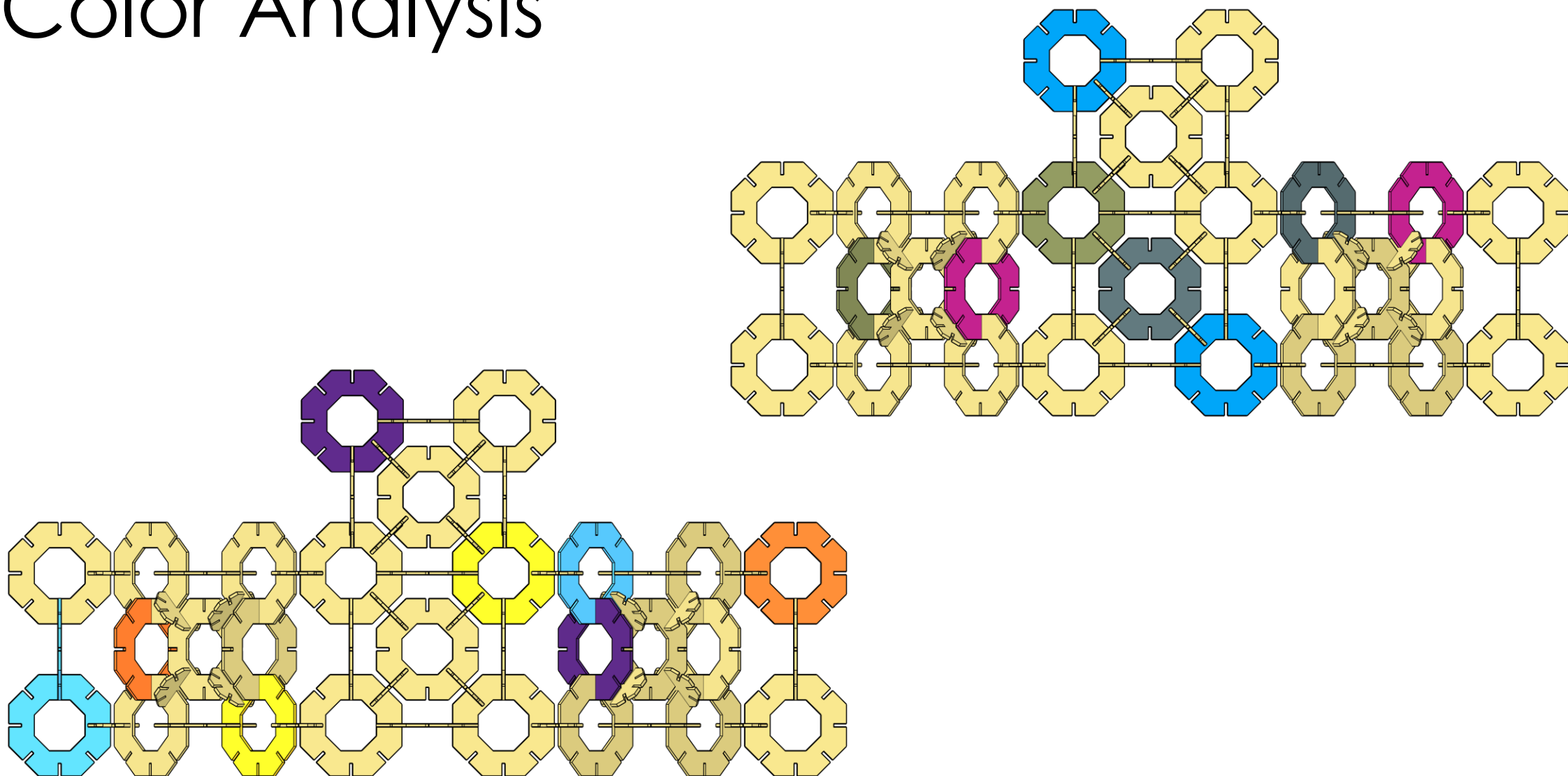
Translating Philomath and Lima

- Taking Inspiration from Surroundings

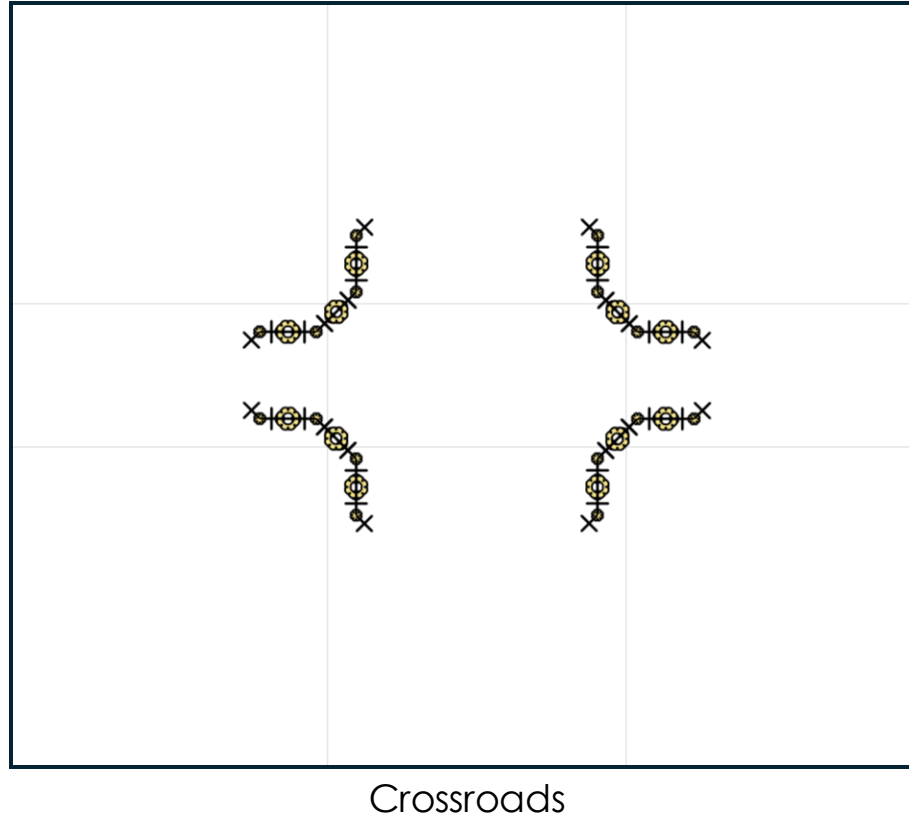


[@ejcartistry](https://www.instagram.com/ejcartistry)

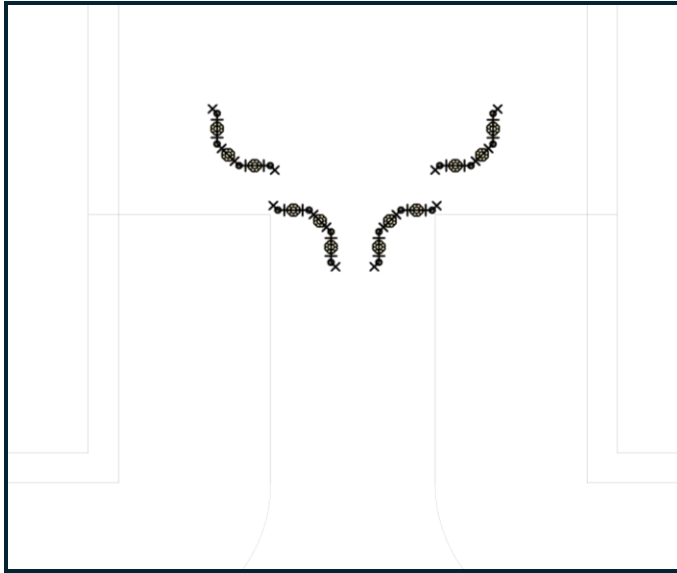
Color Analysis



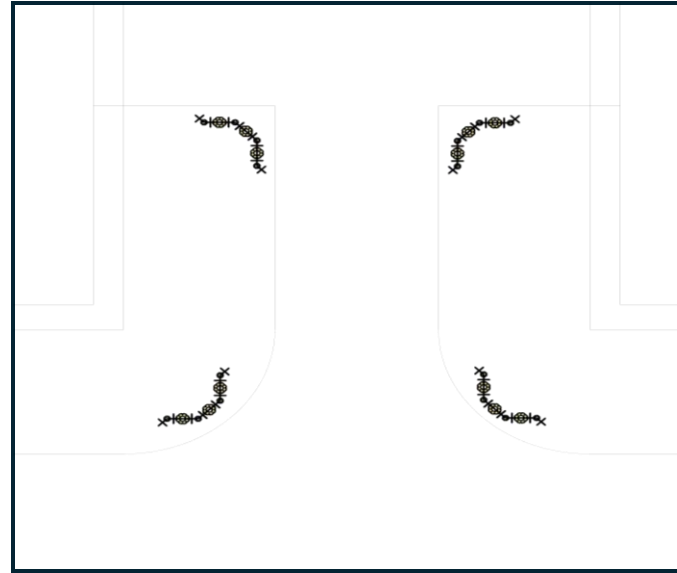
Site – Lima



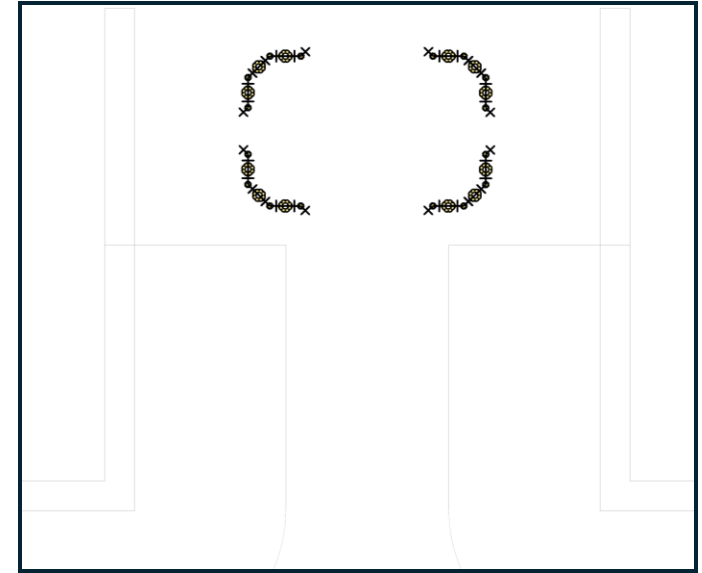
Site – Philomath Downtown



"Funnel" to the Closed Street

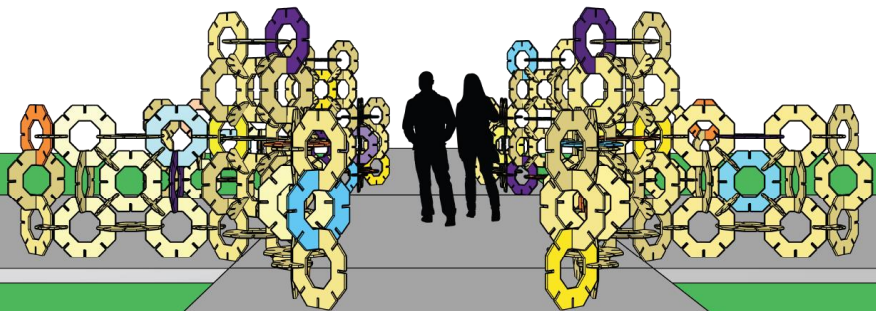


Street Corner Nodes

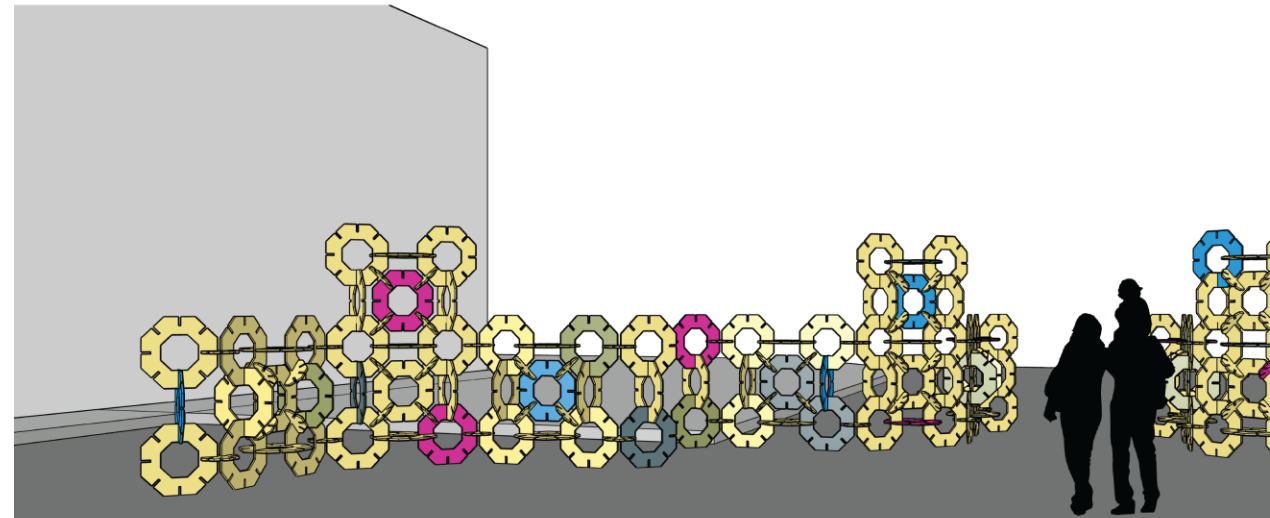


Room in the Street

Perspectives



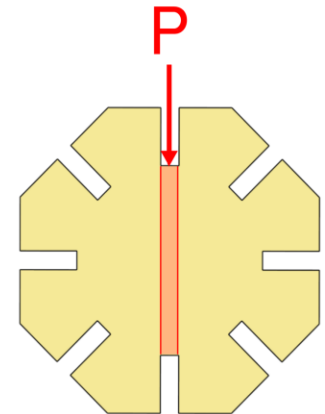
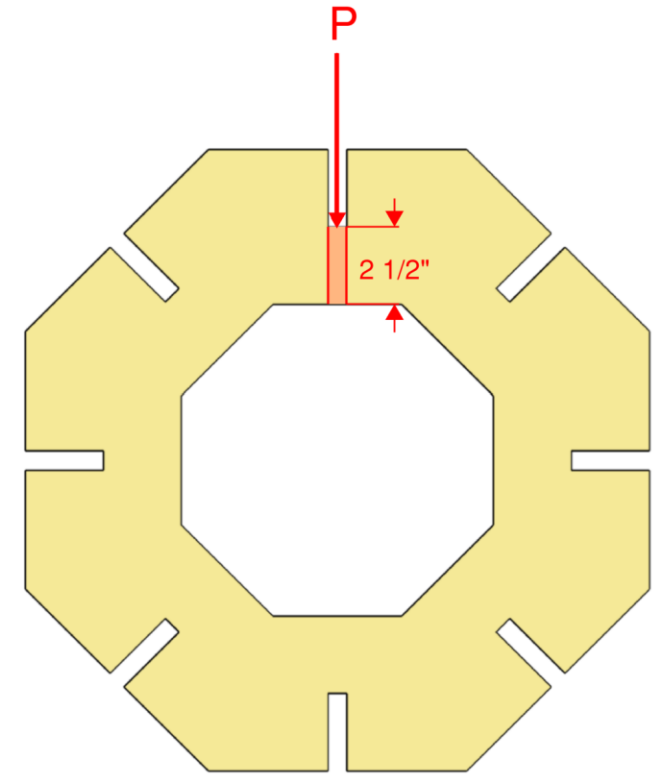
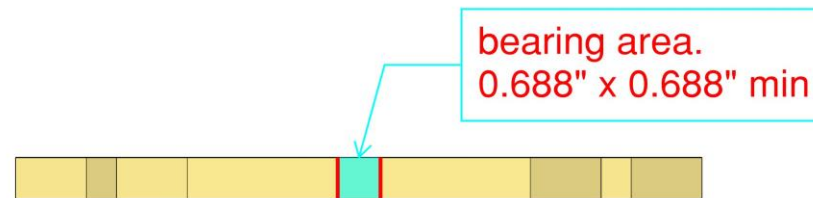
Lima, Peru – Site F



Philomath, OR

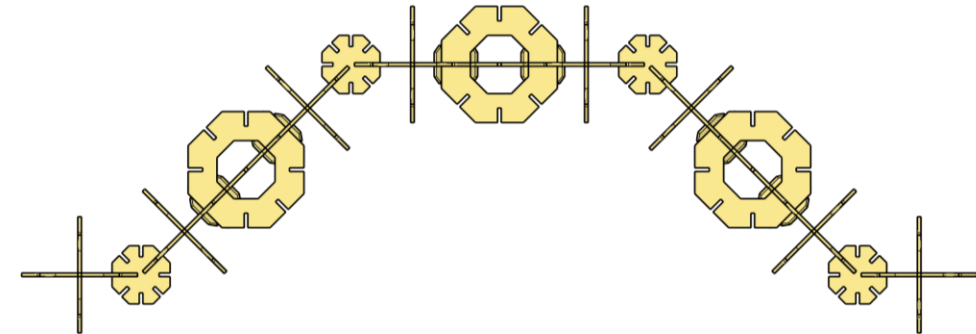
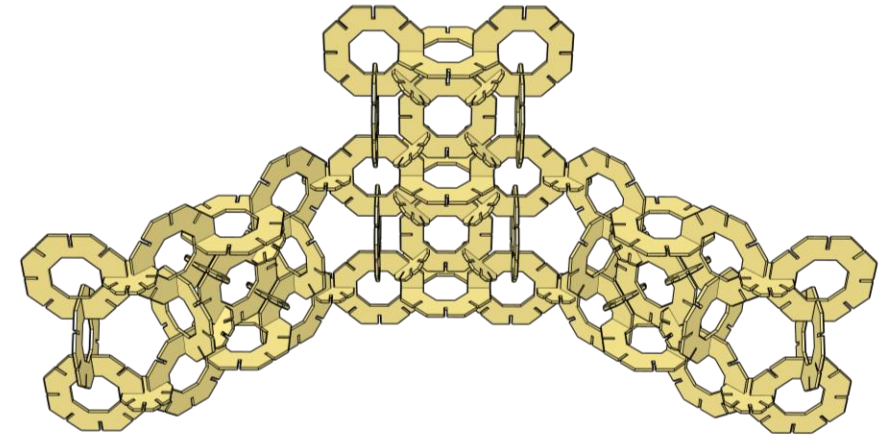
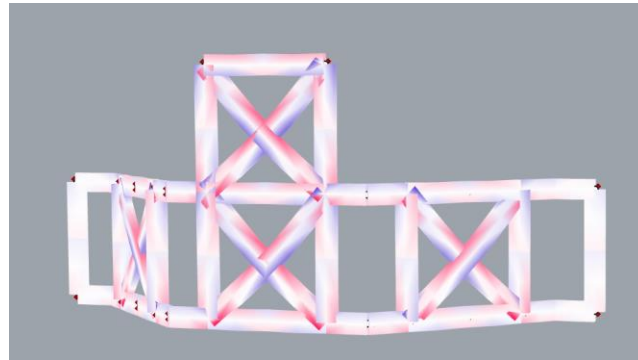
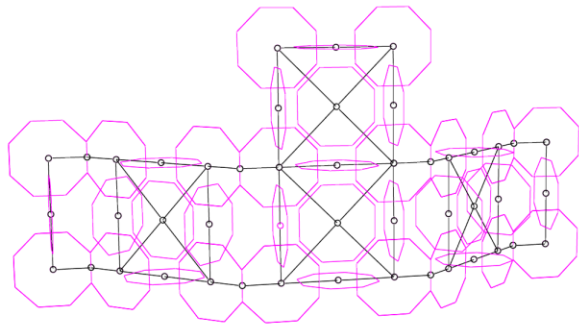
Structural Analysis - Module

- Compression Strength
 - Shear through the thickness
 - Panel axial compression
 - 395 lb compression capacity per joint
- Bench
 - 166 lb capacity for 2' x 1' span
 - Stools preferred

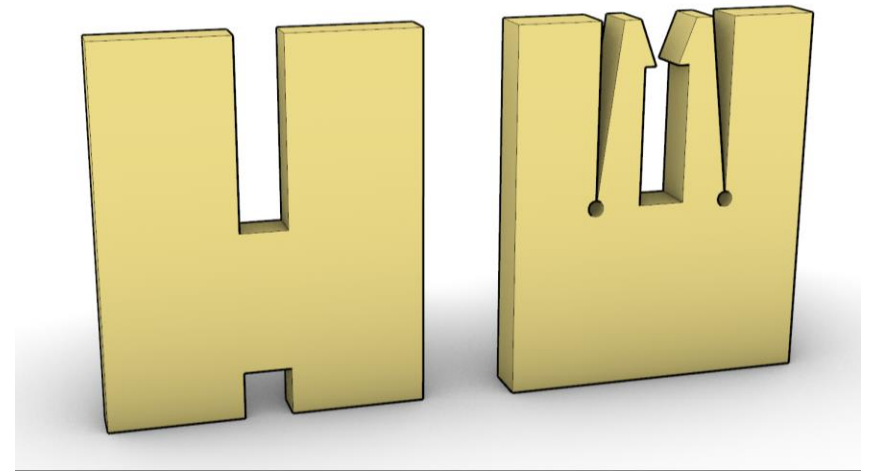
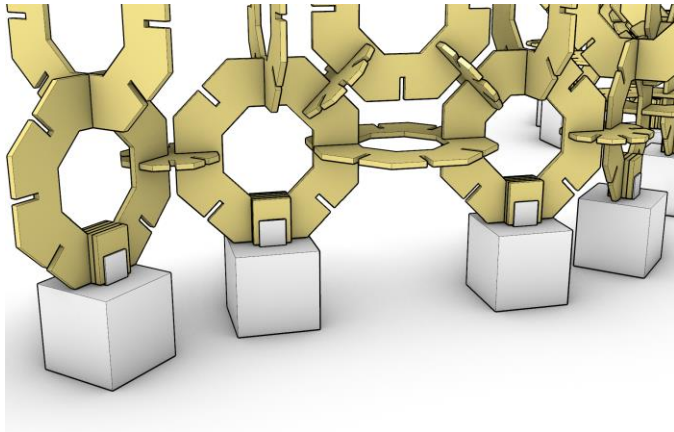
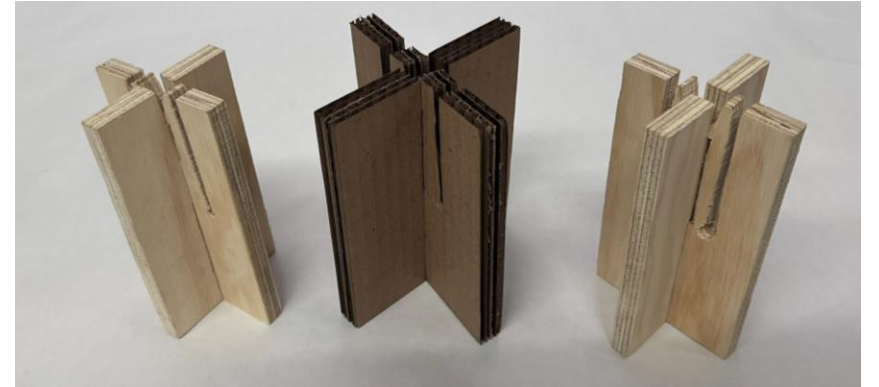


Structural Analysis – Overall Structure

- Racking and tipping addressed
 - Diagonals
 - Curvature
 - Extensive ground support
- Karamba Analysis



Connection Opportunities



Fabrication

Medium Flower – 160

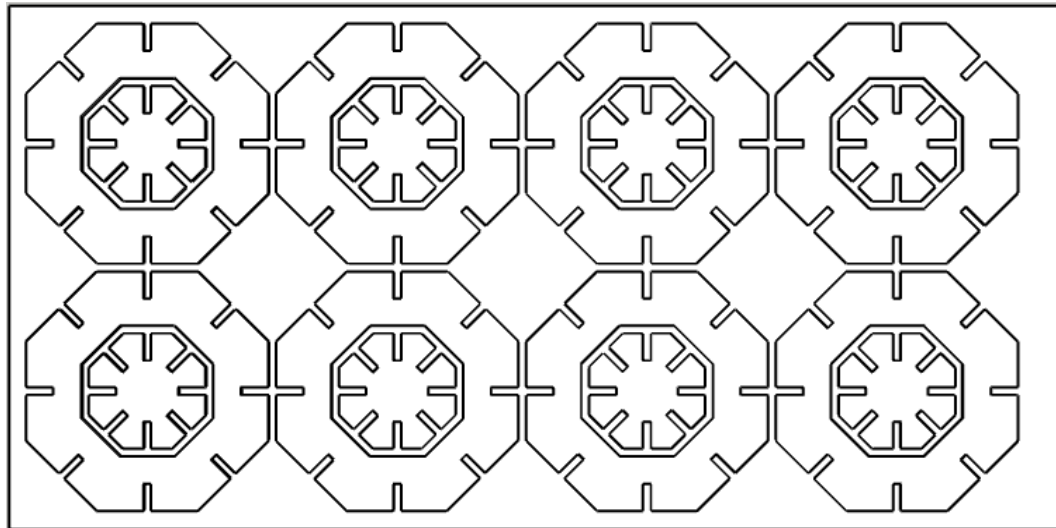
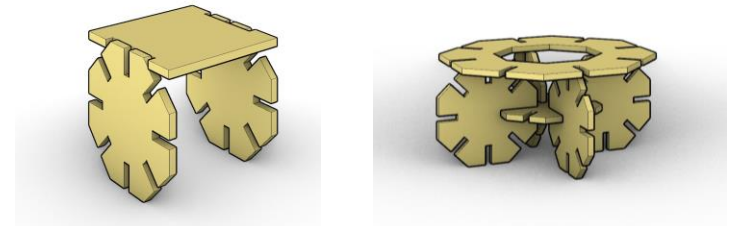
(8 flowers per plywood sheet)

39 – per wall

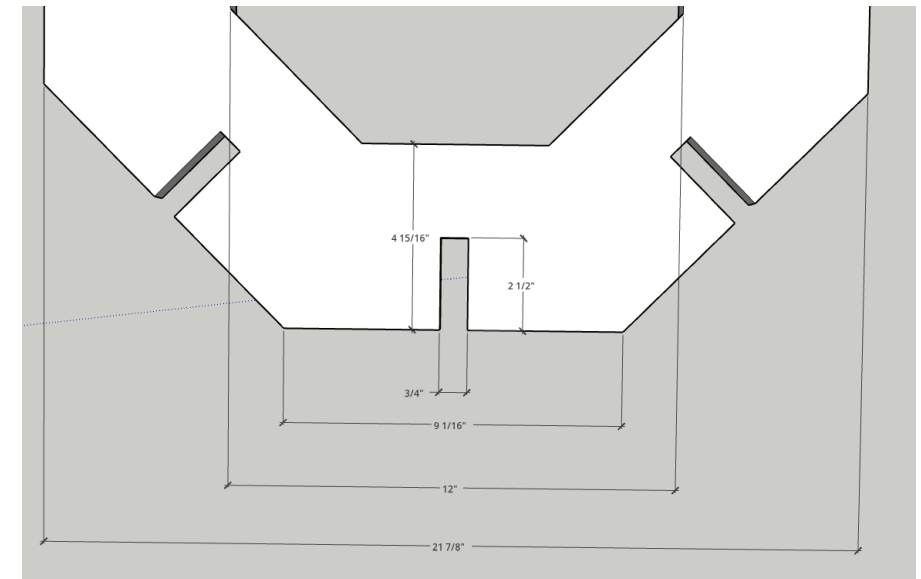
Small Flower – 48 (112 extra small flowers for interactive opportunity)

(8 flowers per plywood sheet)

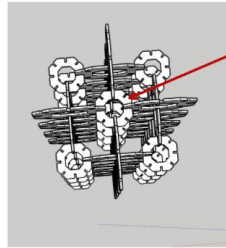
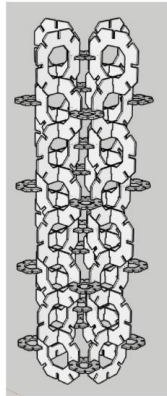
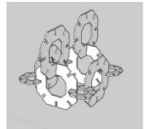
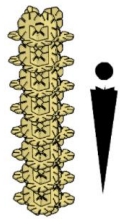
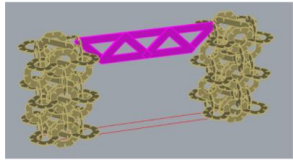
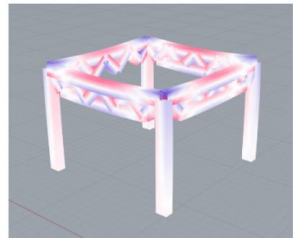
12 – per wall



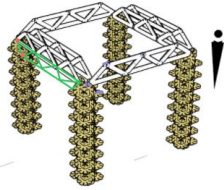
Flowers Accounted for CNC Tolerance



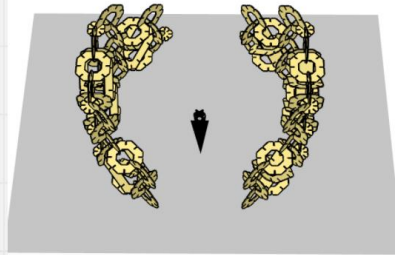
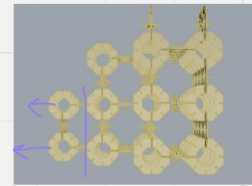
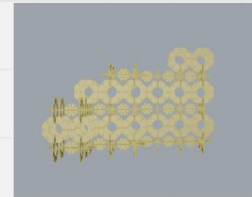
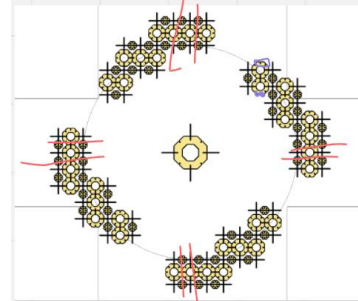
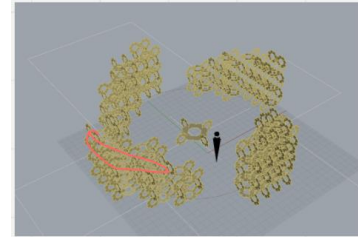
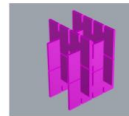
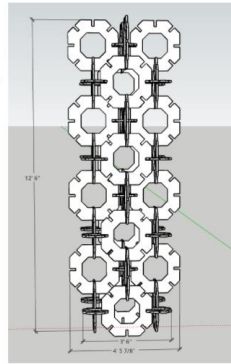
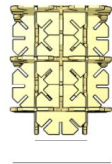
Design Process – Week 3



Green middle for a "stem"????



Column + Truss



Reflection

- + Used material efficiently
- + Flexibly and creatively configured
- + Redundancy in structure

- Δ Secure locking mechanism
- Δ Seating - stools
- Δ Site-specific configurations

