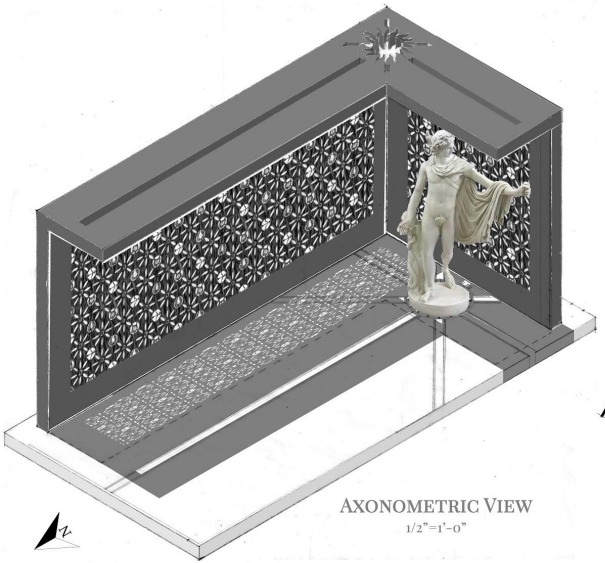
# ARS TOPIARIA,
# the Art *of* Imagination *and* Abstraction
# Spring 2020

Prof. Judith Di Maio

UNIVERSITY *of* NOTRE DAME
School *of* Architecture
ROME STUDIES PROGRAM

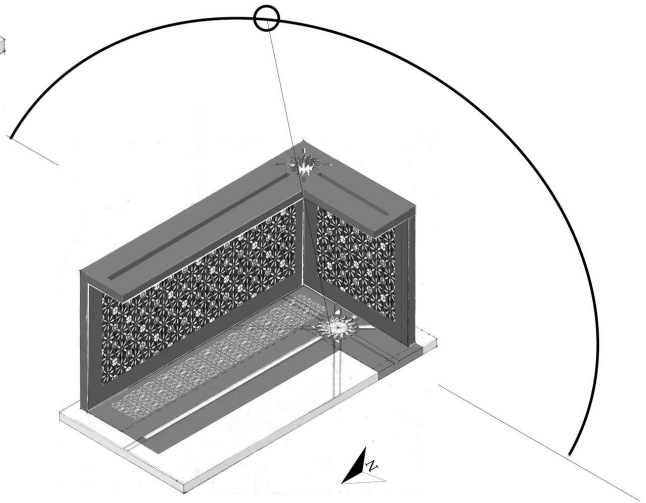
# Screen Project-A Shrine to Apollo

Kristyn Aiello
Professor DiMaio
Roman Urbanism & Architecture II



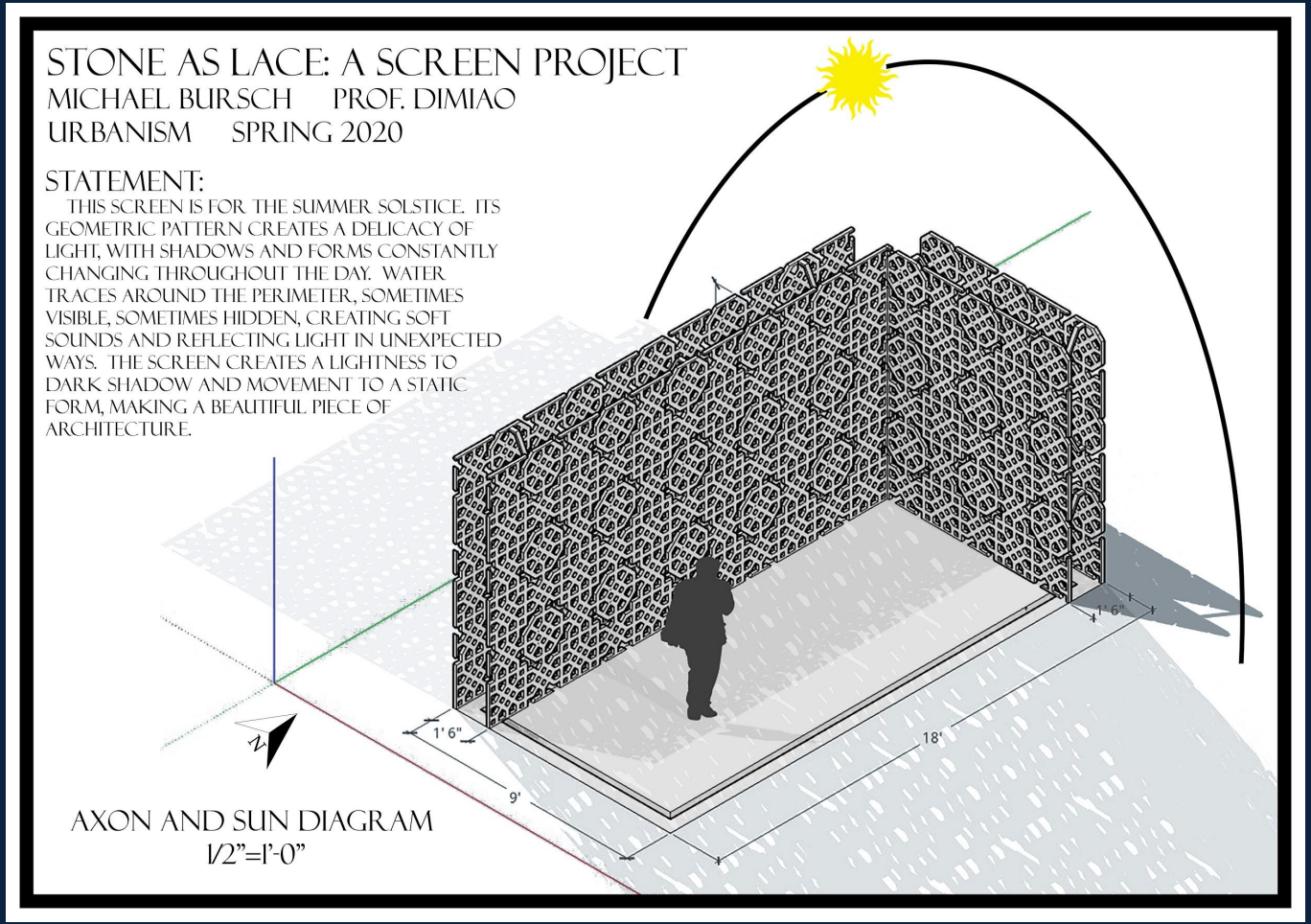
Axonometric View
1/2"=1'-0"

Sun Diagram--Summer Solstice



## Project Statement:

The theme for this project is the creation of a pseudo-shrine to Apollo, the Greek god of the sun, and the progresson of the sun through the screen to a specific point of significance on the summer solstice, when the light through the screen illuminates the site in a specific way.




Michael Bursch

# A Proposal for a Screen: Rigid Lines, Soft Curves, and the Shadows of a Winter Solstice

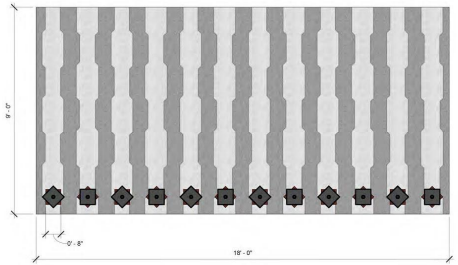
Leighton Douglass
Professor DiMaio

Spring 2020
Roman Urbanism and Architecture II

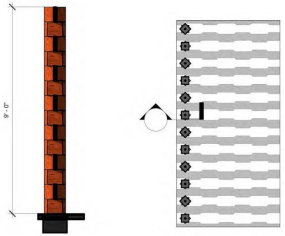
The theme of the design of my screen is manipulating shadows throughout the Winter Solstice. Right when the sun hits its peak in the sky during the Winter Solstice, the contrasting shadows and sunlight will fall directly onto the pattern on the ground plane. The dark section of the pattern and the darkness of the shadows come together right when the sun hits 11:41 AM on December 21, 2020 in Boston, MA. Looking at the screen itself, the red mahogany wooden blocks feature a dynamic grain pattern that contrasts with the rigid, sleek cubes. The grain also changes directions depending on which direction the blocks are turned in.

Red Mahogany Wood Sample

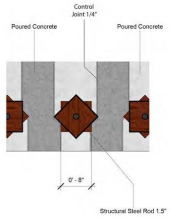
Ground Plane: 1/2" = 1'-0"



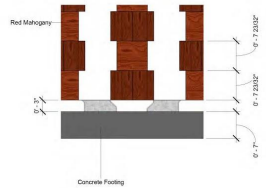

Screen Section: 1/2" = 1'-0"



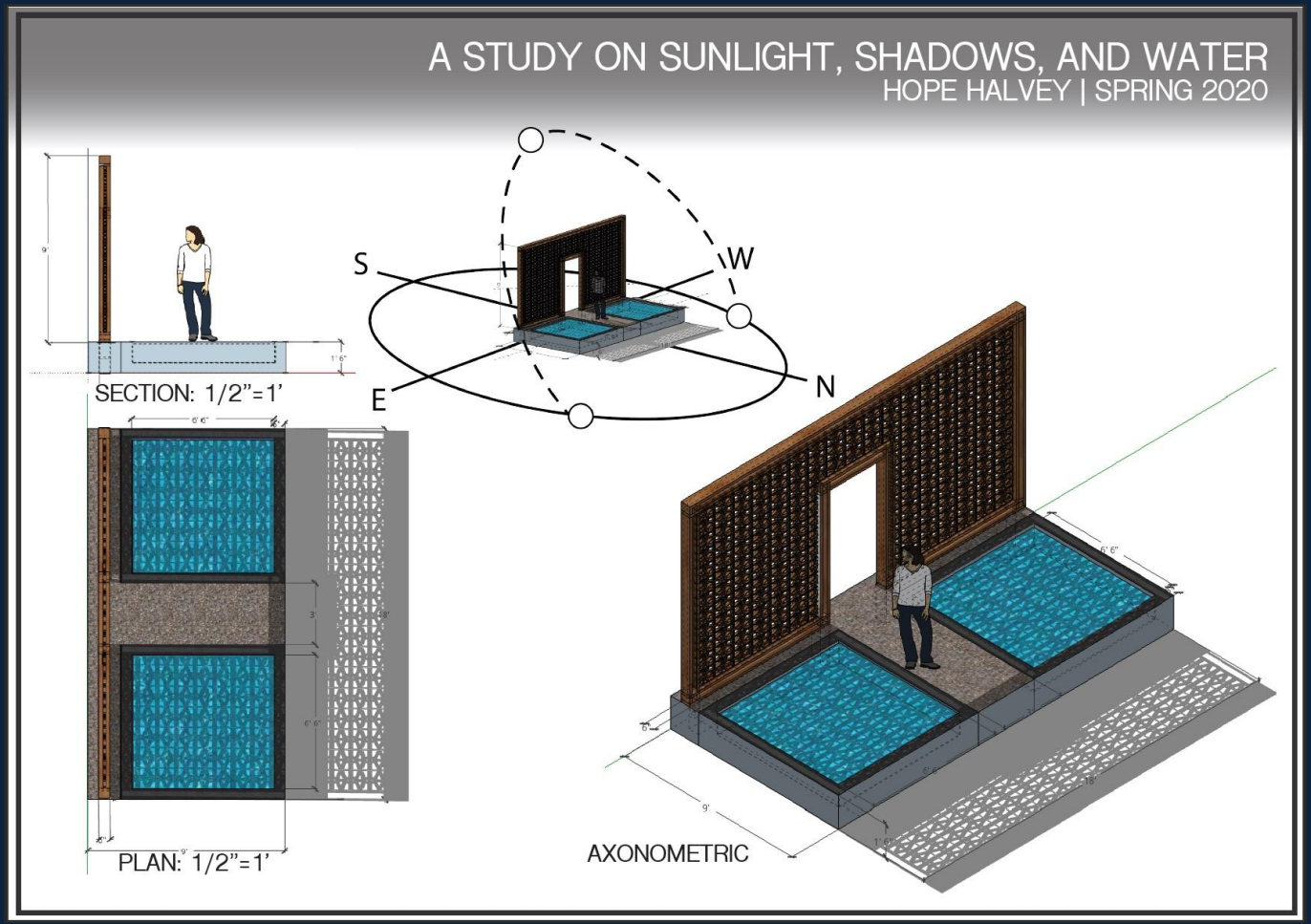

Detail 1: 1" = 1'-0"



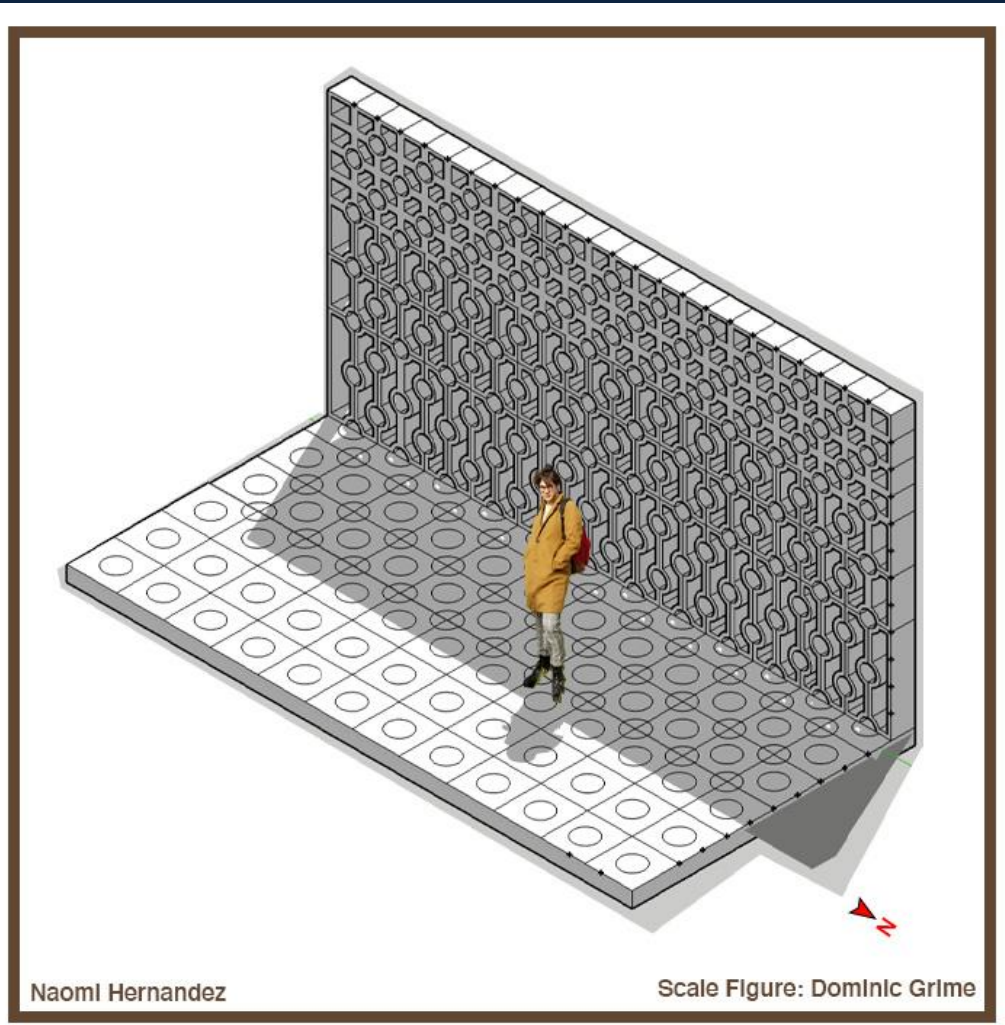

Detail 2: 1" = 1'-0"



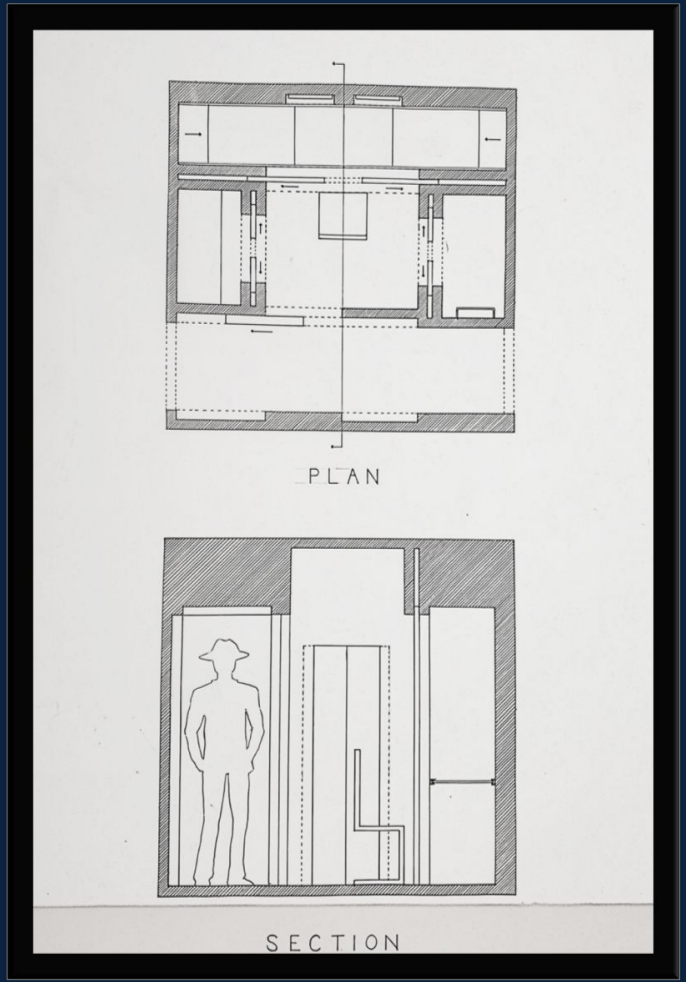

Leighton Douglass


A STUDY ON SUNLIGHT, SHADOWS, AND WATER
HOPE HALVEY | SPRING 2020
SECTION: 1/2"=1'
S
W
E
N
PLAN: 1/2"=1'
AXONOMETRIC

Hope Halvey

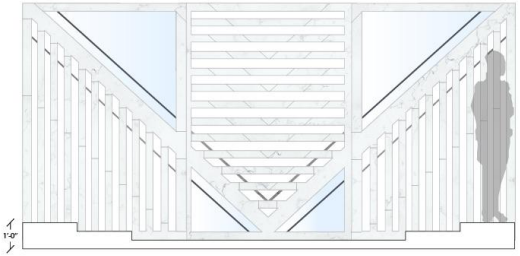



Naomi Hernandez

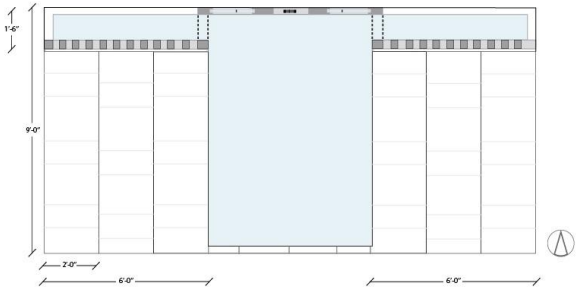



Nayun Hong

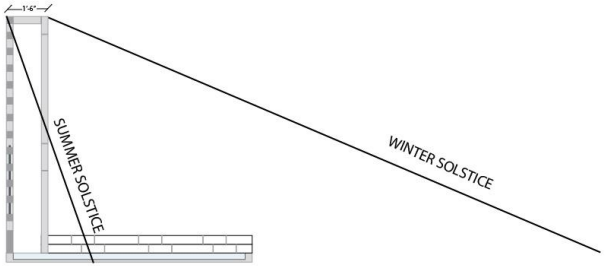
ELEVATION 1/2"=1'-0"

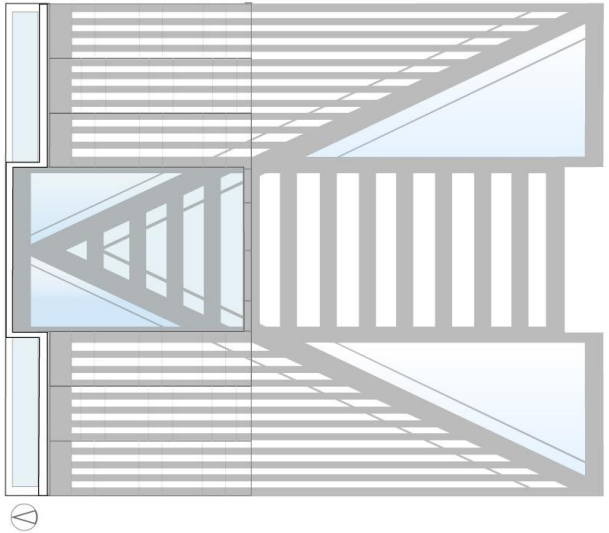


PLAN 1/2"=1'-0"



SECTION AND SHADOW PROJECTION 1/2"=1'-0"



# A FOCAL POINT:
## MATERIALITY, REFLECTION, AND SHADOW

BAILEY JORDAN | SPRING 2020 | PROF JUDITH DIMAIO

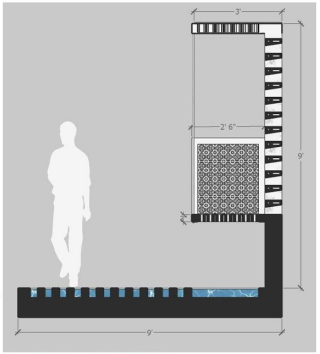
Bailey Jordan

# Duality of Screen and Stair
# Winter Solstice in Rome

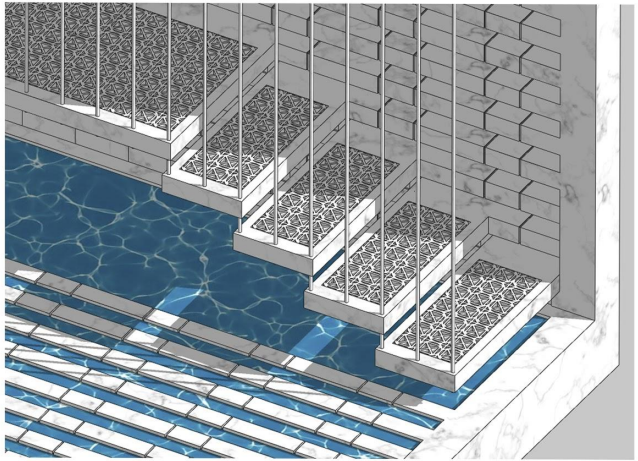
Molly Jorden Professor DiMaio
University of Notre Dame Sring 2020

Overriding Idea Statement

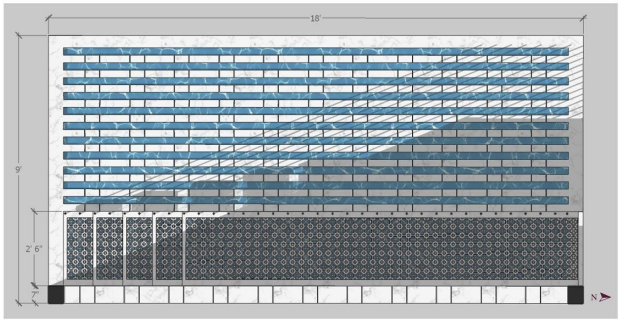
The overriding idea guiding this design is the duality of screen and stair and their sturdy and delicate properties respectively. While a secondary screen is implied by the horizontal coursing and the vertical cables supporting the stairs, the primary screen is the one perforated into the platform and stairs themselves. The stair appears to be an ethereal object which floats above the reflecting pool as it casts the dramatic shadows of the winter solstice in Rome. The narrow canals that flow from the pool reflect the horizontal coursing and distribute water throughout the whole field. It is as if the ground plane, like the stair, is floating on the water. In reality both are anchored to the foundations and provide stability enough to support the occupant of the space. The dual screen and stair composed with the ground plane suggests the delicacy of ever-changing light but provides the stability of the enduring sun.



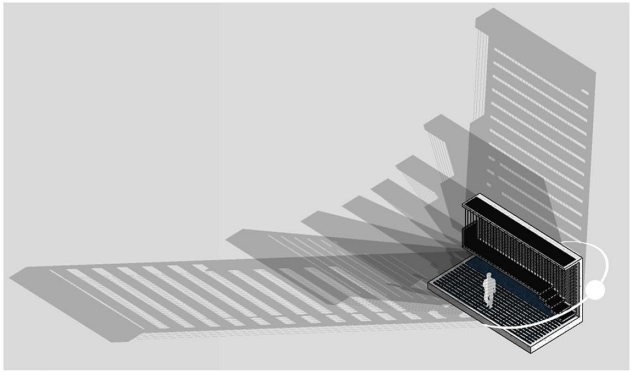

Cross Section 1/2"= 1' 0"



Axonometric Detail 1" = 1' - 0"




Plan 1/2" = 1' - 0"



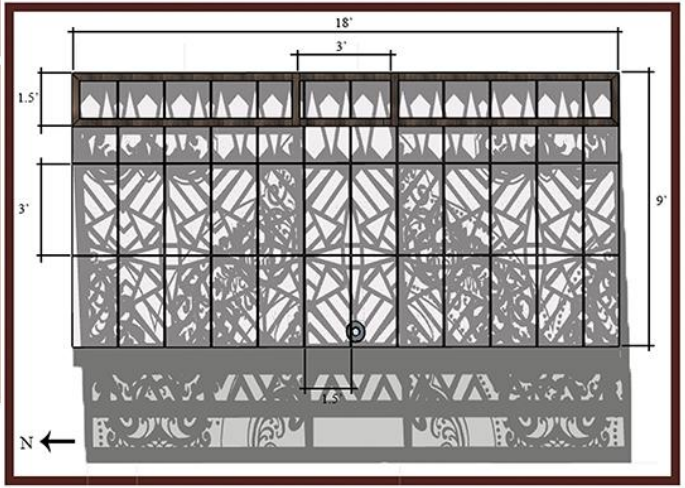
Sun Diagram

Molly Jorden

TOP LEFT: Axonometric view.
TOP RIGHT: Partial elevation.
BOTTOM LEFT: Section (1/2" = 1').
BOTTOM RIGHT: Plan (1/2" = 1').
Shadows cast for 5:44 PM on June 20, 2020 (the Summer Solstice).

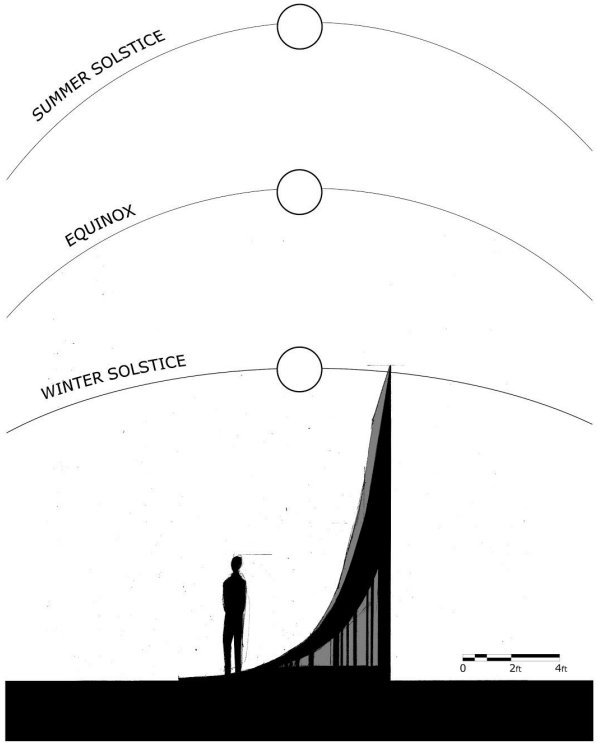
# A JUXTAPOSITION OF FORM, MATERIALS, AND SHADOWS

Maeve M. Kelley
Prof. DiMaio
May 2020

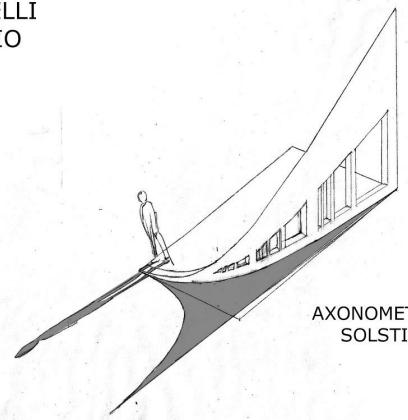


# EXPONENTIAL CURVE SCREEN

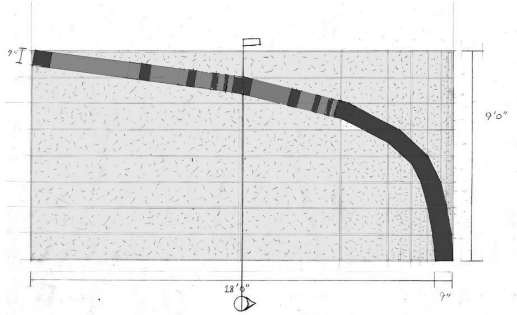
LUKE MOLINELLI
PROF. DIMAIO




SUN DIAGRAM



AXONOMETRIC (WINTER SOLSTICE, NOON)



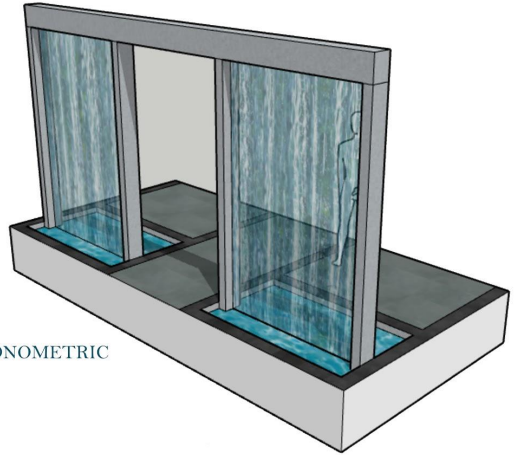

PLAN

Luke Molinelli

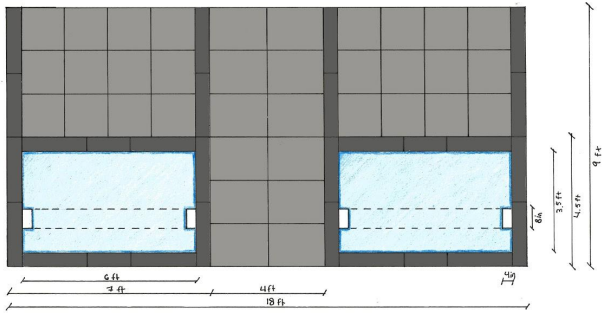
# A WATER WALL AS A SCREEN

NICOLAS MUÑOZ - URBANISM - PROF. DIMAIO

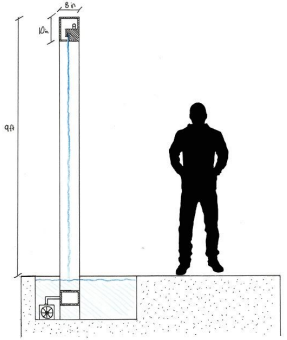
The theme of the screen is how water, even though it's liquid and permeable in the sense that someone could pass through it, could properly function as a screen just as any other solid material creating a division between two spaces and allowing light to pass through it and illuminate the other side. The screen consists of two water walls with a stainless steel frame and a doorway in between. The plan has two pools of water and the pavement is designed with grey polished porcelain tiles and slate tiles.



AXONOMETRIC

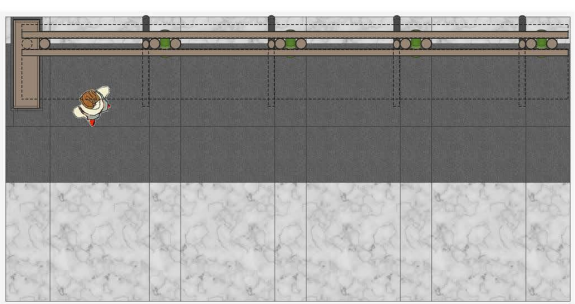


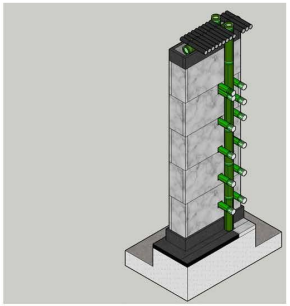

PLAN

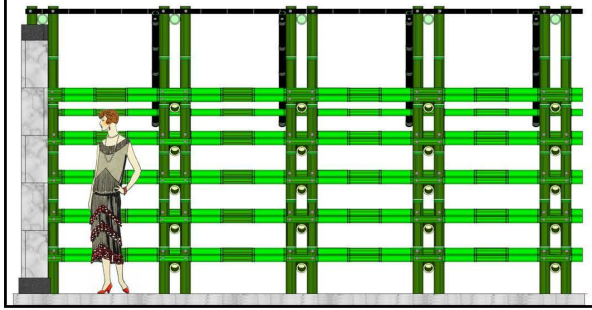


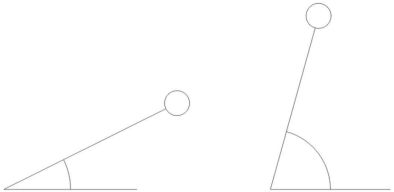

SECTION

Nicolas Munoz Olaso

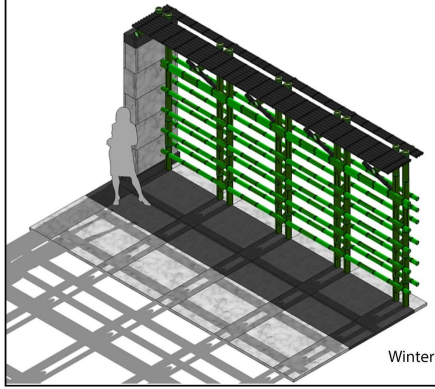




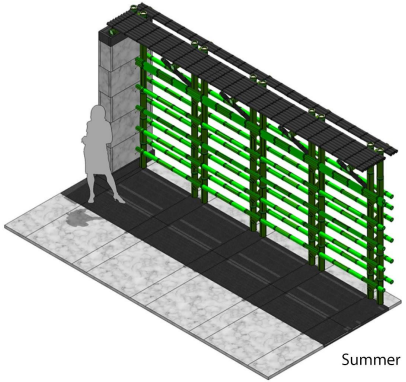




This screen is designed to take advantage of the sun's angle throughout different seasons, drawing power both from principles of solar heating and from aesthetics of rhythm and resonance. Using naturally sustainable resources such as bamboo and ethically sourced stone, the screen is an understated and yet explicit statement of balance with the natural world. A shifting grid of shadows and light adds energy to the asymmetrical composition.

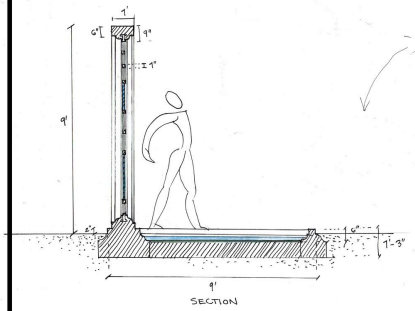


Winter

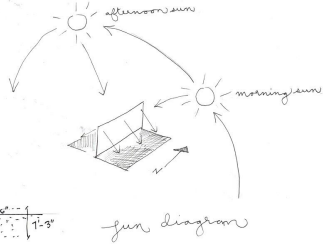


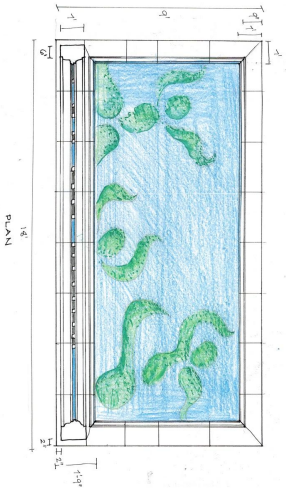
Summer

Stuart Nolan




SECTION

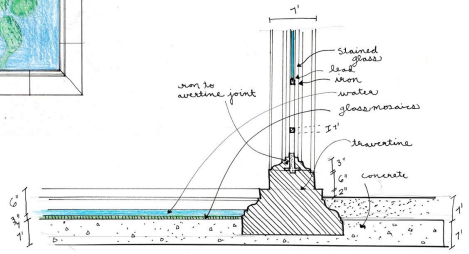



# THE LIGHT OF GOD

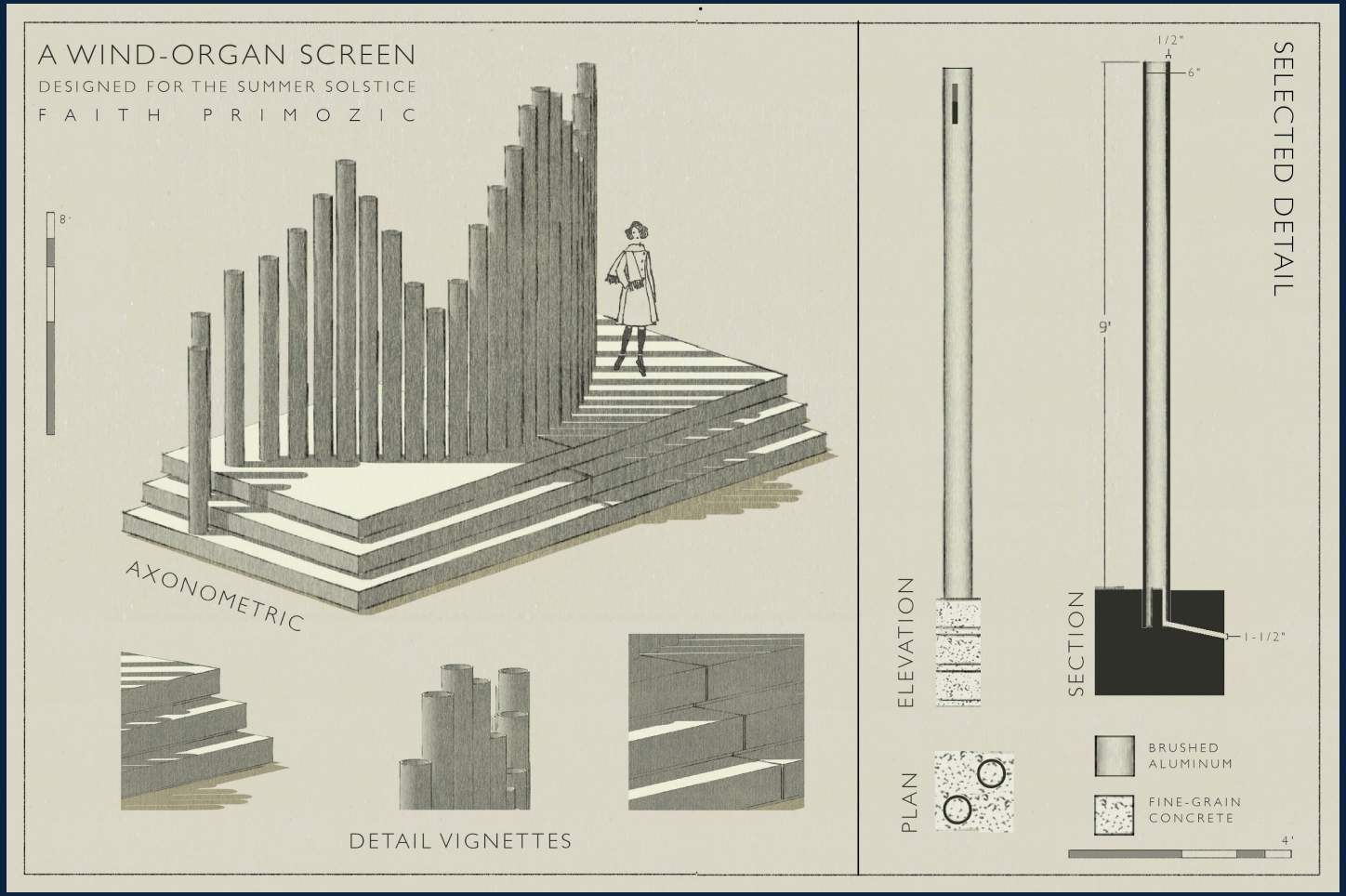
NATALIE PRATT

My screen is based on the quote in the Bible that we should not hide our light under a bushel basket. The main idea is that humankind tends to hide their light under a basket, but God who can turn all things to good, creates something beautiful from this. Humankind is made in God's image. So, in my screen you see humans symbolized in graceful dancers of colored glass which are set in a woven basket-like pattern of humans formed in iron through which the light of God, or the sun, shines through reflecting off of the water, showing how man can reveal some of the divinity of God to others. The figures of the screen are also complimented by figures in the reflecting pool made of sparkling mosaics, making the shadows of the colored glass seem to dance with the mosaic. Both the screen and the pool are framed with travertine. It is made for the summer solstice for more dramatic light, and the screen runs along the edge of the plan. In conclusion, though humankind often interferes with the work of God and blocks His light, similar to this screen, God forms us, so that even in our sins, we can create something beautiful for Him, like the light which shines between the solids of the screen.

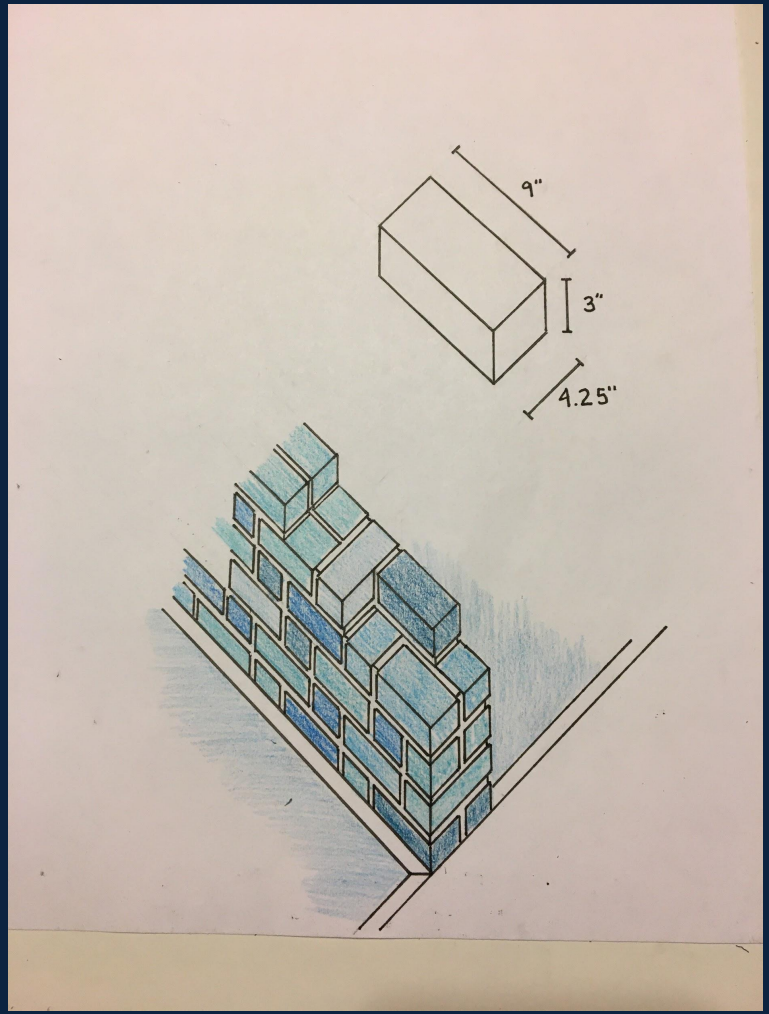



TECHNICAL DETAIL

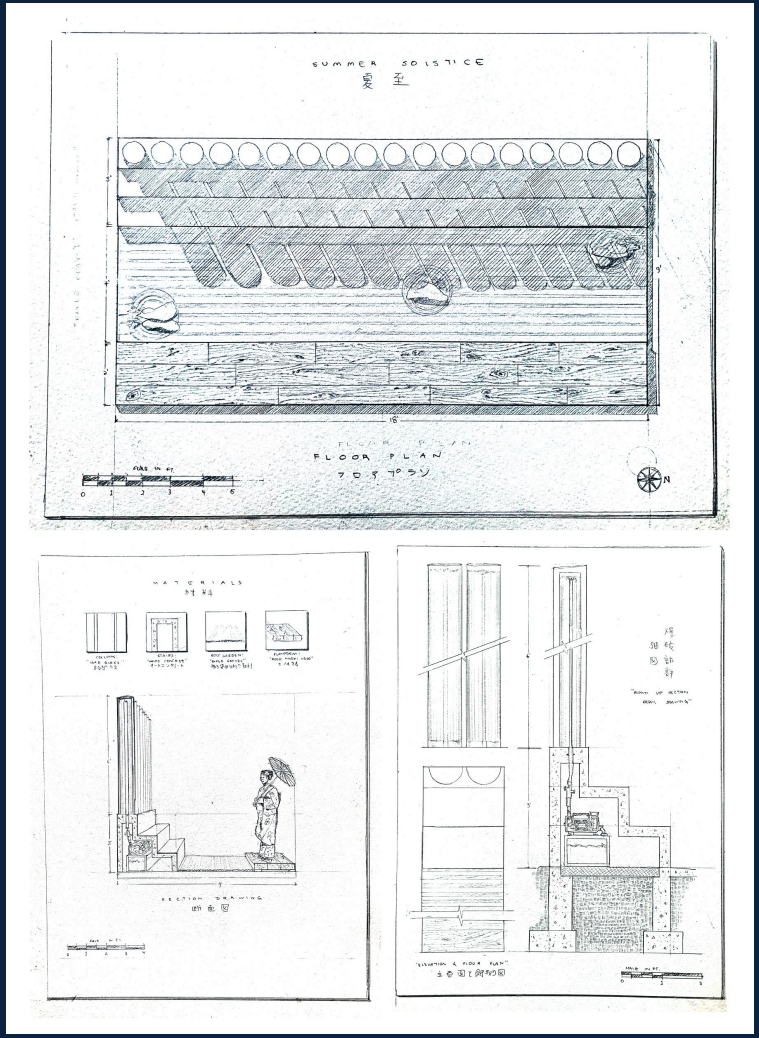
Natalie Pratt



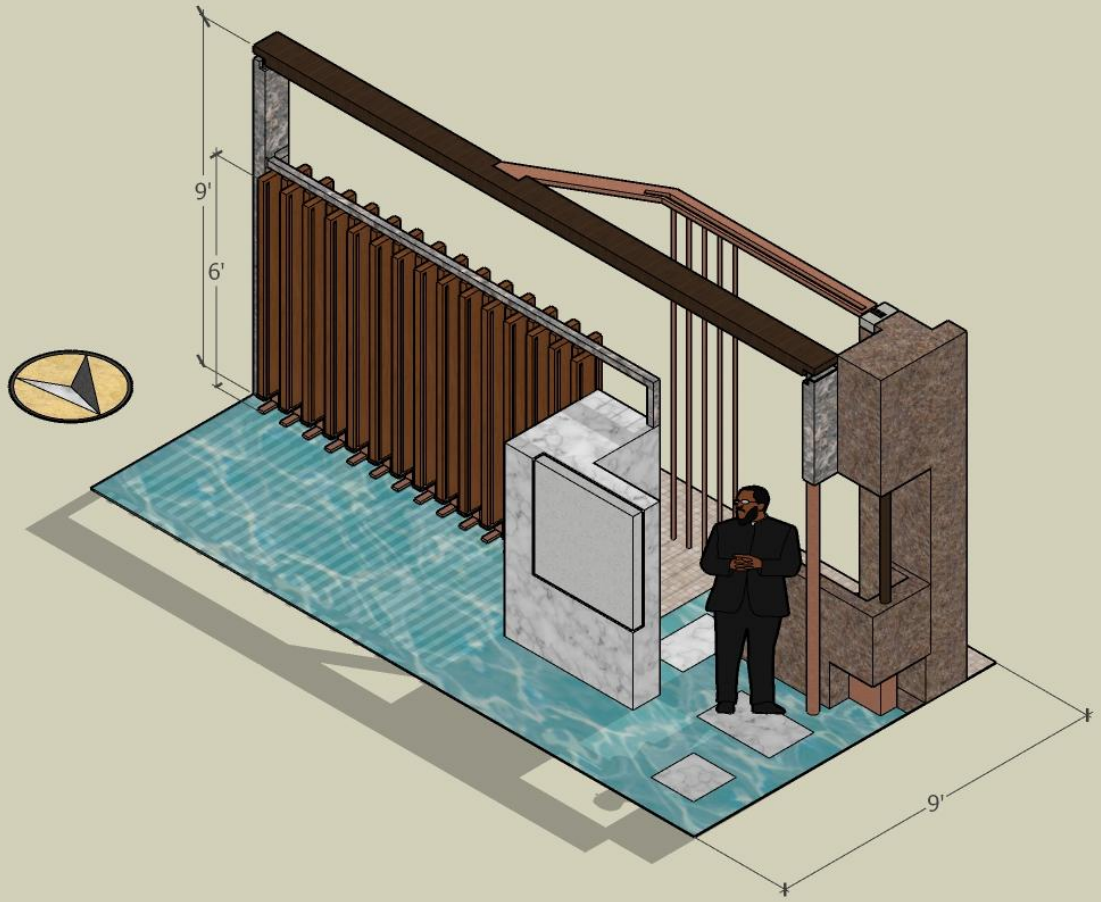

Faith Primozic




Jennifer Trzaska




James Sumantri




Zhian Yin